



THE LIBRARY
OF
THE UNIVERSITY
OF CALIFORNIA
DAVIS





STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

GOODWIN J. KNIGHT, Governor
FRANK B. DURKEE, Director of Public Works
A. D. EDMONSTON, State Engineer

BULLETIN No. 39-V
SOUTHERN CALIFORNIA AREA INVESTIGATION

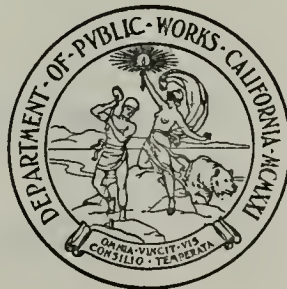
GROUND WATER LEVELS
AND PRECIPITATION RECORDS

IN

LOS ANGELES, SAN GABRIEL, AND SANTA ANA RIVER BASINS
AND ANTELOPE VALLEY

AND

WATER SUPPLY SUMMARY
FOR SOUTHERN PORTION OF CALIFORNIA
1953



AUGUST 1955

THE UNIVERSITY OF CHICAGO
 LIBRARY
 540 EAST 57TH STREET
 CHICAGO, ILL. 60637

THE UNIVERSITY OF CHICAGO
 LIBRARY

THE UNIVERSITY OF CHICAGO
 LIBRARY

THE UNIVERSITY OF CHICAGO
 LIBRARY

THE UNIVERSITY OF CHICAGO
 LIBRARY



TABLE OF CONTENTS

	<u>Page</u>
ACKNOWLEDGMENT	iv
ORGANIZATION, STATE DEPARTMENT OF PUBLIC WORKS, DIVISION OF WATER RESOURCES	v

CHAPTER I. INTRODUCTION

Authorization	2
Prior Reports	2
Scope of Report	4

CHAPTER II. WATER SUPPLY

Precipitation	5
Runoff	6
Storage in Surface Reservoirs	8
Importations	10
Quality of Water	11
Changes in Ground Water Levels	18
Antelope Valley	18
Santa Clara River Valley	20
San Fernando Valley	23
San Gabriel Valley	24
Coastal Plain, Los Angeles County	27
Upper Santa Ana Valley	30
Coastal Plain, Orange County	32
San Jacinto Basin	35
San Luis Rey Valley	37
Tia Juana Basin	38

CHAPTER III. RECORDS OF GROUND WATER LEVELS

Records of Ground Water Levels at Wells in District "A"	41
Records of Ground Water Levels at Wells in District "B"	47
Records of Ground Water Levels at Wells in District "C"	53
Records of Ground Water Levels at Wells in District "D"	81
Records of Ground Water Levels at Wells in District "E"	93
Records of Ground Water Levels at Wells in San Jacinto Valley	101
Records of Ground Water Levels at Wells in Antelope Valley	111

CHAPTER IV. PRECIPITATION RECORDS

Monthly Precipitation Records at Selected Stations in Southern California Published by U. S. Weather Bureau	117
Precipitation Records for Season 1952-53	118

TABLES

<u>Table No.</u>	<u>Title</u>	
1	Precipitation Indices for Selected Areas in Southern California 1952-53	6
2	Estimated Seasonal Natural Runoff at Selected Stations in Southern California	7
3	Storage in Selected Surface Reservoirs in, or Supplying Water to, Southern California	9
4	Mineral Analyses of Surface Water at Selected Stations in Southern California	12
5	Mineral Analyses of Ground Water at Selected Wells in Southern California	14
6	Changes in Ground Water Level Elevations in Antelope Valley	19
7	Changes in Ground Water Level Elevations in Ventura County	21
8	Changes in Ground Water Level Elevations in San Fernando Valley	24

<u>Table No.</u>	<u>Title</u>	<u>Page</u>
9	Changes in Ground Water Level Elevations in San Gabriel Valley	26
10	Changes in Ground Water Level Elevations in Coastal Plain, Los Angeles County	29
11	Changes in Ground Water Level Elevations in Upper Santa Ana Valley	31
12	Changes in Ground Water Level Elevations in Coastal Plain, Orange County	34
13	Changes in Ground Water Level Elevations in San Jacinto Basin	36
14	Changes in Ground Water Level Elevations in San Luis Rey Valley	37
15	Changes in Ground Water Level Elevations in Tia Juana Basin	38

PLATES

Plates Nos. 1 and 2 are bound at end of report

<u>Plate No.</u>	<u>Title</u>
1	Location of Wells at Which Water Level Fluctuations are Shown
2	Fluctuation of Water Levels at Key Wells

ACKNOWLEDGMENT

Many agencies and individuals have contributed data for this report. The sources of data presented in Chapter III are noted at the bottom of each page. Particular acknowledgment is made to the following:

City of San Bernardino

City of San Diego

Los Angeles County Flood Control District

Los Angeles Department of Water and Power

Orange County Flood Control District

Riverside County Flood Control and Water
Conservation District

San Bernardino County Flood Control District

San Bernardino Valley Water Conservation District

The Metropolitan Water District of Southern California

United States Geological Survey

United States Weather Bureau

Without the cooperation of these agencies this report would not be possible, and the Division of Water Resources acknowledges this assistance with thanks.

ORGANIZATION

STATE DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER RESOURCES

Frank B. Durkee Director of Public Works
A. D. Edmonston State Engineer
Harvey O. Banks Assistant State Engineer
L. C. Jopson Principal Hydraulic Engineer
In Charge of Water Rights and Resources

This bulletin was prepared under the direction
of

Max Bookman, Principal Hydraulic Engineer
Engineer-in-Charge of Southern California Office

and

R. M. Edmonston, Supervising Hydraulic Engineer
Assistant Engineer-in-Charge of Southern California Office

by

Jack J. Coe, Associate Hydraulic Engineer

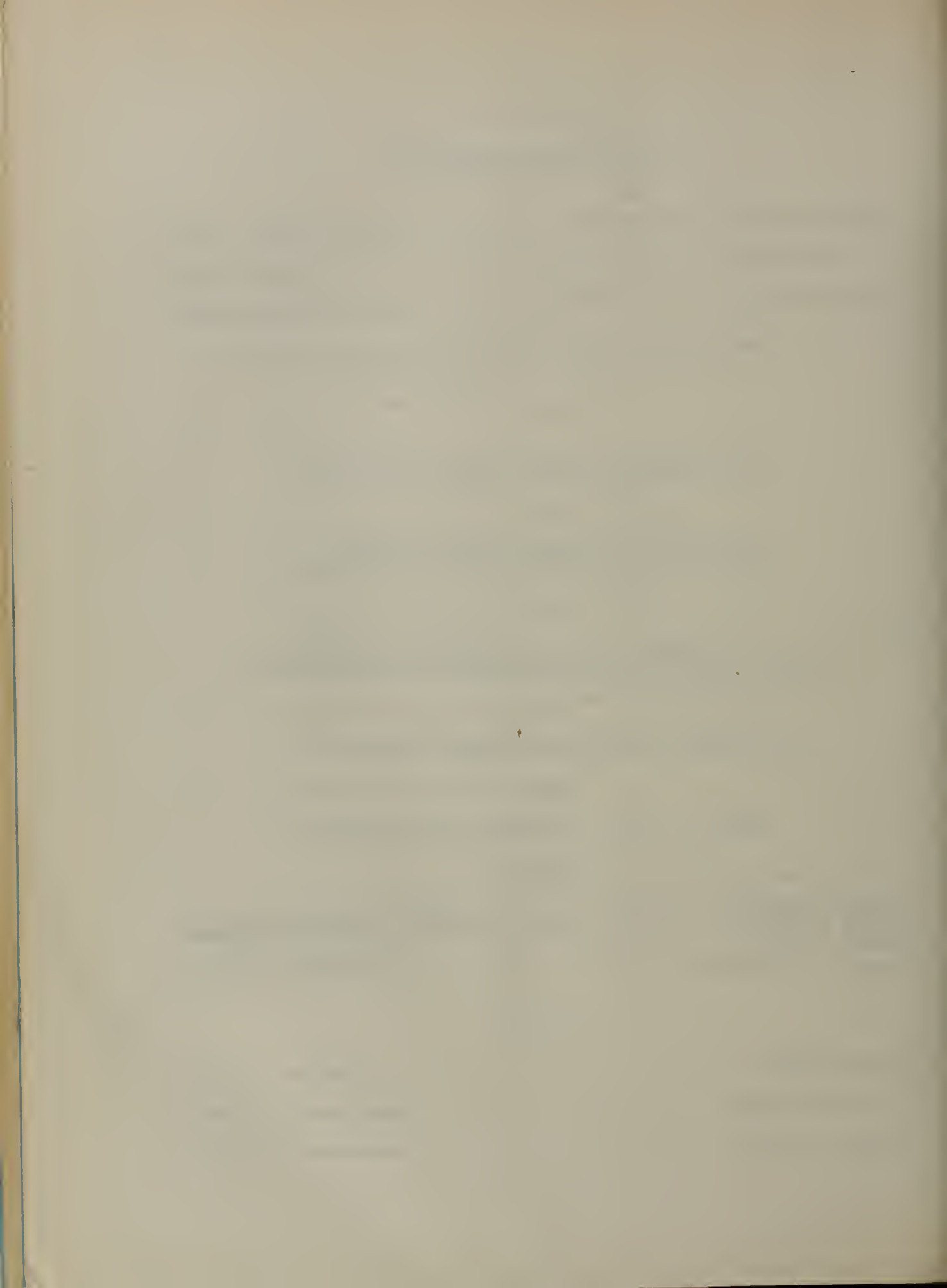
and

Robert Y. D. Chun, Assistant Hydraulic Engineer

assisted by

Frank S. Florian Assistant Hydraulic Engineer
Walter L. Terry Assistant Hydraulic Engineer
Edward J. Lange Junior Civil Engineer
Joseph L. Leitzinger Junior Civil Engineer

Henry Holsinger Principal Attorney
T. R. Merryweather Administrative Officer
Isabel C. Nessler Coordinator of Reports



GROUND WATER LEVELS
AND PRECIPITATION RECORDS

IN

LOS ANGELES, SAN GABRIEL, AND SANTA ANA RIVER BASINS
AND ANTELOPE VALLEY

AND

WATER SUPPLY SUMMARY
FOR SOUTHERN PORTION OF CALIFORNIA

1953

CHAPTER I. INTRODUCTION

This report is one of a series begun in 1932, in recognition of the need for collecting and publishing basic hydrologic data for use in the continuing study of water problems in southern California. These problems result, in part, from the wide seasonal variation in the magnitude of the natural water supply and the ever-increasing net use of water, accompanying the increase in population and urbanization.

The seasonal year 1952-53 was far below normal with respect to precipitation and runoff. Thus 1952-53 continued the drought, which commenced in 1944-45 and which has been interrupted only by the single "wet" year of 1951-52. The accumulated deficiency in precipitation at Los Angeles for the nine-year period 1944-45 through 1952-53 was 27.70 inches, as compared to the mean seasonal precipitation of 14.81 inches. The deficiency in runoff for the year was exemplified by the Arroyo Seco, wherein, at the station near Pasadena, the annual discharge was only 20 per cent of the mean.

There were 473,800 acre-feet of water imported to southern California from the Owens River-Mono Basin and from Colorado River in the fiscal year 1952-53. However, drought conditions, together with increased demands

for water, occasioned a substantial depletion of both surface and ground water storage.

Authorization

The Legislature, by Chapter 832, Statutes of 1929, directed that exploration and investigation be conducted for the furtherance of a coordinated plan for the conservation, development, and utilization of the water resources of southern California. As a result of this legislation, the Division of Water Resources has undertaken a continuing hydrologic study now known as the Southern California Area Investigation. This report is the twenty-third of a series issued in connection with that investigation.

Prior Reports

As part of the investigation, Bulletin No. 39 was published in 1932, containing "Records of Ground Water Levels at Wells". Since 1932, water levels at selected wells have been published annually in Bulletins Nos. 39-A through 39-U. The locations and descriptions of the wells referred to in the earlier bulletins were published in Bulletin No. 39, and are shown on Maps 1 through 8, accompanying that bulletin. The locations and descriptions of wells in the San Jacinto and Antelope Valleys were first published in Bulletin No. 39-J, and are shown on Maps 9 through 11 included in that bulletin.

Seasonal precipitation data from United States Weather Bureau records, as well as from records at stations not included in official publications of that agency, were first published in Bulletin No. 39-A and have been incorporated in all subsequent publications of the series. Monthly records from a few key United States Weather Bureau stations were first published in Bulletin No. 39-D. A map showing the location of precipitation stations for which seasonal records are published was included in Bulletin No. 39-A.

Numerous other bulletins have been published by the Division of Water Resources from 1930 to date which include data on water use, ground water levels, quality of water, value and cost of water for irrigation, water losses and evaporation data, underground geology, and evaluation of overdraft on ground water basins in southern California. These bulletins include:

California State Department of Public Works, Division of Water Resources. "South Coastal Basin, A Symposium". Bulletin No. 32. 1930.

California State Department of Public Works, Division of Water Resources. "Rainfall Penetration and Consumptive Use of Water in Santa Ana River Valley and Coastal Plain". Bulletin No. 33. 1930.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Quality of Irrigation Waters". Bulletin No. 40. 1933.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Detailed Analyses Showing Quality of Irrigation Waters". Bulletin No. 40-A. 1933.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Value and Cost of Water for Irrigation in Coastal Plain of Southern California". Bulletin No. 43. 1933.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Water Losses Under Natural Conditions from Wet Areas in Southern California". Bulletin No. 44. 1933.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Geology and Ground Water Storage Capacity of Valley Fill". Bulletin No. 45. 1934.

California State Department of Public Works, Division of Water Resources. "South Coastal Basin Investigation, Overdraft on Ground Water Basins". Bulletin No. 53. 1947.

California State Department of Public Works, Division of Water Resources. "Southern California Area Investigation, Memorandum Report on Water Conditions in Antelope Valley in Kern, Los Angeles and San Bernardino Counties". February, 1955.

Scope of Report

The early reports of the Bulletin No. 39 series were limited to publication of records of ground water levels in the Santa Ana, San Gabriel, and Los Angeles River Valleys and the West and South Coastal Plains. Subsequently, precipitation records were added and the area extended to include the San Jacinto and Antelope Valleys. Commencing in 1948, a general water supply summary for the southern portion of the State was added, containing information on precipitation, runoff, surface reservoir storage, importations, water quality, and changes in ground water levels. This report includes, in addition to a water supply summary for 1952-53, a compilation of precipitation records for the period July 1, 1952, through June 30, 1953, and records of ground water levels for the 1953 calendar year.

The data are presented under four chapter headings as follows:

(1) Introduction, (2) Water Supply, (3) Records of Ground Water Levels, and (4) Precipitation Records. Fifteen tables summarizing water supply data are included with the text of Chapter II, and two plates pertaining to ground water data are bound at the end of the report.

CHAPTER II. WATER SUPPLY

Precipitation

As previously stated, 1952-53 was the eighth year of subnormal precipitation since 1943-44. Seasonal depths of precipitation recorded in 1952-53 at United States Weather Bureau stations in Los Angeles and San Diego were only 9.46 inches and 6.54 inches, respectively, compared to means at these stations of 14.81 inches and 10.36 inches, respectively. The average seasonal precipitation occurring at Los Angeles during the period 1944-45 through 1952-53 was only 11.73 inches, in spite of the above-normal precipitation in 1951-52.

Table 1 presents precipitation indices for selected areas in southern California during the season July 1, 1952, through June 30, 1953. These indices are arithmetical averages of the precipitation indices for several stations within the area, and are based on 50-year means for the period 1897-98 through 1946-47. Seasonal precipitation records for individual stations are tabulated in Chapter IV.

TABLE 1

PRECIPITATION INDICES FOR SELECTED AREAS
IN SOUTHERN CALIFORNIA
1952-53

Area	Index
Bear Valley	72
Chino	69
Coastal Plain	69
Riverside	80
San Bernardino	76
San Diego*	63
San Fernando Valley	64
San Gabriel Valley	62

* United States Weather Bureau Station,
Lindbergh Field, San Diego.

Runoff

Runoff in southern California in 1952-53 was again below normal, following the above-normal runoff occurring in the 1951-52 season. In 1952-53, the estimated seasonal natural runoff at Arroyo Seco near Pasadena was 1,480 acre-feet, or approximately 20 per cent of the mean, and flow of the San Gabriel River near Azusa was 33,640 acre-feet, or about 28 per cent of mean. Evidence of the deficiency in runoff during the year was also noted at the mouths of the major streams, where little waste to the ocean was observed. The discharge into the ocean from the Santa Ana River was only about 490 acre-feet during the water year 1952-53. Estimated seasonal natural runoff at selected stations in southern California in 1952-53 is presented in Table 2, together with a comparison of mean, maximum, and minimum runoff for each station for the 53-year period, 1894-95 through 1946-47.

TABLE 2

ESTIMATED SEASONAL NATURAL RUNOFF AT SELECTED STATIONS IN SOUTHERN CALIFORNIA

In Acre-Feet

Station	:	:	Period of record	:	1952-53	:	Mean ^a	:	Maximum ^b		:	Minimum ^b	
									Season	Amount		Season	Amount
Matilija Creek at Matilija			1927 to date		6,710		28,200		1940-41	125,300		1950-51	1,260
Sespe Creek near Fillmore			1934 to date		22,330		93,900		1940-41	376,000		1950-51	3,520
Piru Creek near Piru			1911-13; 1927 to date		13,780		53,700		1940-41	226,000		1898-99	900
Arroyo Seco near Pasadena			1910 to date		1,480		7,300		1921-22	25,400		1898-99	160
San Gabriel River near Azusa			1894 to date		33,640		122,000		1921-22	410,000		1898-99	9,620
Santa Ana River near Mentone			1896 to date		24,120		70,600		1915-16	280,000		1950-51	13,090
San Jacinto River near San Jacinto			1920 to date		7,760		28,900		1915-16	124,000		1950-51	2,070
Santa Ysabel Creek near Mesa Grande			1912-28; 1936 to date		2,000		15,200		1915-16	95,200		1950-51	830

a. Mean for period 1894-95 through 1946-47.

b. Indicated maxima and minima are recorded or estimated values for period 1894-95 to date.

Storage in Surface Reservoirs

Storage in surface reservoirs in southern California was substantially reduced in 1952-53. Amounts in usable storage in Lake Hemet, Vail Reservoir, and Lake Henshaw were depleted to nine per cent, twelve per cent, and three per cent of usable capacities respectively, on September 30, 1953. Ten City of San Diego reservoirs, which contain some imported Colorado River water, were only 22 per cent full on this date. Table 3 presents storage in selected reservoirs in, or supplying water to, southern California.

TABLE 3

STORAGE IN SELECTED SURFACE RESERVOIRS IN, OR
SUPPLYING WATER TO, SOUTHERN CALIFORNIA

Reservoir	:	Usable capacity, in acre-feet	:	Usable water in storage on September 30, 1953	
				: In acre-feet	: In per cent of usable capacity
Grant Lake on Rush Creek	.	47,520		25,270	53
Long Valley Reservoir on Owens River		183,500		152,160	83
Tinemaha Reservoir on Owens River		16,400		9,520	58
Haiwee Reservoir in Rose Valley		58,520		36,050	62
Bouquet Reservoir on Bouquet Creek		36,500		32,400	89
Lake Mead on Colorado River		27,207,000		18,384,000	68
Santiago Reservoir on Santiago Creek		25,000		7,520	30
Bear Valley Reservoir on Bear Creek		72,400		13,150	18
Lake Hemet on San Jacinto River		13,350		1,050	8
Vail Reservoir on Temecula Creek		49,520		6,180	12
Lake Henshaw on San Luis Rey River		194,300		5,820	3
San Dieguito Lake on a tributary of Escondido Creek		590		320	54
Lake Hodges on San Dieguito River		31,520		12,320	39
San Vicente Lake on San Vicente Creek		86,940		30,120	35
El Capitan Lake on San Diego River		115,800		18,980	16
Murray Lake in Chapparel Canyon		5,230		4,090	78
Lake Loveland on Sweetwater River		25,250		330	1
Sweetwater Reservoir on Sweetwater River		27,690		11,570	42
Morena Lake on Cottonwood Creek		49,320		4,100	8
Barrett Lake on Cottonwood Creek		41,740		3,510	8
Upper Otay Lake on Proctor Valley Creek		2,420		260	11
Lower Otay Lake on Otay River		53,590		11,020	21

On September 30, 1953, there was a maximum water depth of approximately two feet in Lake Elsinore in Riverside County, compared to a depth of nine feet in April, 1952. The lake was dry for several months in 1951. In the Colorado Desert Area, the water surface of the Salton Sea continued to rise during 1952-53, being 237.2 feet below sea level on September 30, 1953, or 1.1 feet higher than a year previous. On May 31, 1953, the water surface elevation was 236.8 feet below sea level, the highest recorded elevation of the Salton Sea surface since 1916.

Importations

During the fiscal year 1952-53, the City of Los Angeles Department of Water and Power imported approximately 311,500 acre-feet of water from Owens River-Mono Basin, representing 70 per cent of total water imported, purchased, and produced locally by the City in that year. As in previous years, the Los Angeles Aqueduct was operated at full capacity, or about 450 second-feet, except for periods of shutdown.

The Metropolitan Water District of Southern California diverted about 182,400 acre-feet of water from Lake Havasu in fiscal year 1952-53, or approximately 15 per cent of the 1,212,000 acre-feet per year planned ultimate capacity of the Colorado River Aqueduct. In 1952-53, a total of 102,300 acre-feet of softened and 60,000 acre-feet of unsoftened Colorado River water were delivered by the District, a decrease in total deliveries of approximately 16 per cent from the amount delivered during the previous year. Of the 60,000 acre-feet of unsoftened water, 28,600 acre-feet were delivered to San Diego County Water Authority. This represents a decrease of about 54 per cent from the amount delivered during fiscal year 1951-52.

The service area of the Metropolitan Water District was enlarged on January 15, 1953, with the annexation of Foothill Municipal Water District, comprising an area of 13,824 acres. Annexations and general area development

increased assessed valuation of the Metropolitan Water District to approximately six billion dollars in March, 1953, which is about one-half billion dollars in excess of the valuation in March, 1952.

Quality of Water

Except in relatively small, isolated areas where surface and ground waters have been polluted with sewage or industrial waste, the paramount water quality problem in southern California continues to be sea-water intrusion. The intrusion of sea water into certain coastal aquifers has caused degradation of ground water quality and, in some cases, abandonment of wells. Evidence of sea-water intrusion exists in Oxnard Plain and West Coast Basins, East Coastal Plain Pressure Area, and the Santa Margarita, San Luis Rey, and Mission Valleys. Analyses of samples from surface sampling stations and selected wells in southern California are shown in Tables 4 and 5.

TABLE 4

MINERAL ANALYSES OF SURFACE WATER
AT SELECTED STATIONS IN SOUTHERN CALIFORNIA

Station number	Station	Date : sampled :	ECx10 ⁶ : at : : 25°C :	Ca :	Mg :	Na+K :	HCO ₃ :	SO ₄ :	Cl :	NO ₃ :	B :	Mineral constituents, in parts per million	Total : : hardness : Per : as CaCO ₃ , : cent : : in ppm : Na
S7733	Big Rock Creek SE. of Pearblossom, and about 300 feet upstream from confluence with Pallett Creek	8-11-53	593	66	24	26	249	84	4	11	0.12	263	15
619-95.	Mojave River NW. of Victorville, and about 0.2 mile SE. of U.S. Highway No. 91 bridge	9-7-53	413	34	9	42	163	35	22	4	0.12	144	41
43-17.0	Santa Clara River E. of Santa Paula, and about 1.5 miles upstream from Willard Bridge	9-9-53	1984	227	83	197	342	851	90	2	1.0	908	31
S2771-G-10	Los Angeles River NE. of Los Angeles at Figueroa St.	9-18-53	2457	82	50	384	183	365	468	0	1.12	410	66
S2927-I-13	Rio Hondo NE. of Montebello, about 0.1 mile upstream from San Gabriel Blvd. bridge	9-9-53	793	51	17	100	251	49	93	9	0.24	197	50
S2947-I-13	San Gabriel River SW. of El Monte, and 0.5 mile upstream from Whittier Narrows Dam	9-9-53	362	32	14	20	127	56	13	1	0.10	137	21

MINERAL ANALYSES OF SURFACE WATER
AT SELECTED STATIONS IN SOUTHERN CALIFORNIA
(continued)

Station number	Station	Date	ECx10 ⁶	Mineral constituents, in parts per million:	Total									
		sampled	at	Ca	Mg	Na+K	HCO ₃	SO ₄	Cl	NO ₃	B	as CaCO ₃	hardness	Per cent
			25°C.											Na
SL8001-G-28	Warm Creek San Bernardino at "E" St.	5- 5-53	521	75	10	32	234	76	22	10	0.05	228	21	
SL6933-J-24	Santa Ana River W. of Riverside at Pedley Road	9- 8-53	985	80	26	94	185	240	82	4	0.10	307	38	
93-20.0	Santa Margarita River N. of Fallbrook, about 0.5 mile downstream from confluence with Sandia Creek	9-16-53	1100	79	24	129	300	158	115	0	0.20	296	48	
94-28.0	San Luis Rey River SE. of Pala at Pala Diversion Dam	9-16-53	597	53	17	48	166	104	36	1	0.04	202	32	

TABLE 5

MINERAL ANALYSES OF GROUND WATER
AT SELECTED WELLS IN SOUTHERN CALIFORNIA

Well number	Owner and location	Date sampled	ECx10 ⁶ : at 25°C.	Ca	Mg	Na+K	HCO ₃	SO ₄	Cl	NO ₃	B	Total hardness: Per cent as CaCO ₃ , in ppm
<u>Oxnard Forebay Basin</u>												
2N/22W-12G1	United Concrete Pipe Corporation One mile SE. of Satcoy, and 200 feet NE. of Del Norte Ave. and 500 feet SE. of Vineyard Ave.	8-24-53	1775	187	60	147	294	618	90	2	0.50	716 30
<u>Oxnard Plain Basin</u>												
1N/22W-3F4	City of Oxnard Oxnard; 200 feet E. of Saviers Rd. and 100 feet N. of Third St.	8-25-53	1360	166	51	102	289	506	55	19	0.60	625 25
<u>San Fernando Valley</u>												
A-84v-E-7	Polar Water Company Three miles W. of Burbank, 198 feet S. of Burbank Blvd. and 154 feet E. of Denny Ave.	9-3-53	625	84	14	27	249	55	24	39	0.00	269 15
<u>Raymond Basin Area</u>												
C-16-F-11	City of Pasadena Copelin well Pasadena; 142 feet E. of Mentone Ave. and 118 feet N. of Manzanita St.	7-28-53	---	47	15	25	205	32	16	8	---	180 23
<u>Main San Gabriel Basin</u>												
C-245-G-14	City of Monrovia Three miles S. of Monrovia, and 400 feet E. of Peck Rd. and 200 feet N. of Jeffries Ave.	9-30-53	471	60	18	16	216	19	18	37	0.10	224 12

MINERAL ANALYSES OF GROUND WATER
AT SELECTED WELLS IN SOUTHERN CALIFORNIA
(continued)

Well number	Owner and location	Date sampled	EC x 10 ⁶	Ca	Mg	Na+K	HCO ₃	SO ₄	Cl	NO ₃	B	Mineral constituents, in parts per million	Total hardness as CaCO ₃ , in ppm
<u>Montebello Forebay Area</u>													
C-815u-J-13	La Habra Heights Mutual Water Company Judson No. 3 well Two miles W. of Whittier, and 1050 feet W. of Norwalk Blvd. and 1600 feet southerly from Dunlap Crossing Road along an unnamed road	11-9-53	712	89	21	41	271	86	33	16	0.08	308	21
<u>Central Coastal Plain Pressure Area</u>													
C-872t-K-11	Los Angeles County Farm Two miles SW. of Downey, and 1600 feet S. and 300 feet W. of intersection of Imperial Hwy. and road entering County Farm from north	10-26-53	517	60	15	32	249	40	20	6	0.07	211	23
<u>West Coast Basin</u>													
B-135s-N-10	The Texas Company No. 5 well Three miles NW. of Long Beach, and 442 feet E. and 1046 feet N. of intersection of S. property line of Pacific Coast Hwy., and E. property line of A.T.&S.F.R.R.	10-22-53	382	17	3	67	193	1	27	5	0.08	55	71

MINERAL ANALYSES OF GROUND WATER
AT SELECTED WELLS IN SOUTHERN CALIFORNIA
(continued)

Well number	Owner and location	Date sampled:	EC x 10 ⁶ at 25°C.	Ca	Mg	Na+K	HCO ₃	SO ₄	Cl	NO ₃	B	Mineral constituents, in parts per million	Total hardness: as CaCO ₃ , in ppm
<u>Chino Basin</u>													
D-726c-G-21	City of Ontario No. 4 well Two miles NE. of Ontario, and 90 feet S. of Fourth St. and 300 feet E. of Grove Ave.	6-24-53	356	45	10	16	178	11	7	20	0.06		154
<u>Bunker Hill Basin</u>													
E-29-G-28	City of San Bernardino Hanford No. 1 well San Bernardino; 170 feet E. of "D" St., and 60 feet S. of Second St.	9-23-53	374	47	6	28	182	14	22	6	0.25		141
<u>Santa Ana Forebay Area</u>													
C-974u-M-16	Southern California Water Company Three miles SE. of Fullerton, and 530 feet N. of La Jolla St., and 30 feet W. of Vista St.	9-11-53	995	111	21	64	305	77	97	23	0.14		364
<u>East Coastal Plain Pressure Area</u>													
C-987aa-N-14	Mountain Properties Inc. Three miles W. of Garden Grove, and 125 feet S. of Stanford Ave. and 258 feet E. of Sycamore St.	9-21-53	469	54	10	31	210	35	18	35	0.04		176

MINERAL ANALYSES OF GROUND WATER
AT SELECTED WELLS IN SOUTHERN CALIFORNIA
(continued)

Well number	Owner and location	Date : sampled at :	ECx10 ⁶ :	Mineral constituents, in parts per million										Total :
		at :		Ca :	Mg :	Na+K :	HCO ₃ :	SO ₄ :	Cl :	NO ₃ :	B :			as CaCO ₃ , :cen :
		25°C. :												in ppm : Na :
<u>San Luis Rey Valley</u>														
11S/4W-18B1	S. Davies Three miles NE. of Oceanside, and 7700 feet NE. of intersec- tion of Mission Rd. and Mesa Dr. along Mission Rd. and 1760 feet N. of Mission Rd.	8-12-53	1103	71	32	105	256	86	162	2	0.08		308	41
<u>Tia Juana Basin</u>														
19S/2W-4A5	California Water and Telephone Company Well No. 5, South Basin Plant Three miles W. of San Ysidro, and 720 feet W. of National Ave. and 1500 feet S. of Sunset Ave.	7-15-54	2390	146	58	276	360	304	429	5	0.31		605	49

Changes in Ground Water Levels

Ground water levels in the southern portion of the State exhibited a general decline from the fall of 1952 to the fall of 1953, with levels in several coastal ground water basins being below sea level. A brief summary of ground water conditions in certain of the ground water basins delineated on Plate 1 is presented hereinafter. Plate 1 also shows locations within these basins of selected wells for which fluctuations of ground water levels are shown on Plate 2. Changes in ground water level elevations during this period and maximum and minimum water level elevations observed during the period of record at selected wells in the South Coastal Area and Antelope Valley are presented in Tables 6 through 15.

Antelope Valley

Net use of ground water in Antelope Valley has exceeded replenishment of ground water supply for many years, resulting in a steady decline in ground water levels, as shown on Plate 2. Observed ground water levels dropped an average of eight feet between the fall of 1952 and the fall of 1953, with depths to ground water being as much as 288 feet. Table 6 presents changes in ground water level elevations in 17 wells.

TABLE 6

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN ANTELOPE VALLEY

In Feet

Well numbers	:	:	:	Depth to	:	Change:	Date and extreme
Bulletin :	:	R.P. :	Beginning:	ground water	:	in :	ground water level
No. 39-J :	:	eleva- :	of :	Fall :	:	eleva- :	elevations of record
Location :	:	tion :	record :	1952 :	:	tion :	Maximum : Minimum
5N/ 9W- 6A	8944	2,847.3	1940	51.3	57.5	- 6.2	7-29-44 12- 2-53 2,820.9 2,789.8
5N/10W- 7A	8826A	2,817	1938	145.2	157.8	-12.6	3-15-45 10- 6-53 2,699.4 2,659.2
5N/10W-26A	7700	3,155	1940	41.7	51.2	- 9.5	11-24-52 11- 5-51 3,113.3 3,097.5
5N/11W-10A	8787	2,836	1927	109.4	112.7	- 3.3	7-28-44 8-13-38 2,799.1 2,690.5
6N/ 8W-18A	10338	2,725	1939	163.9	164.3	- 0.4	11-18-39 12- 2-53 2,566.0 2,560.7
6N/10W-20A	8831	2,637.6	1940	219.5	217.0	+ 2.5	3-14-45 10-30-52 2,501.6 2,418.1
6N/12W-24A	8690	2,587	1927	283.3	287.8	- 4.5	12- 5-28 11-10-53 2,399.0 2,299.2
6N/13W-12A	9897	2,607.5	1940	254.7	260.8	- 6.1	5-31-40 12- 1-53 2,373.8 2,346.7
7N/11W-24A	10101	2,433	1932	182.1	189.2	- 7.1	4- 8-32 12- 3-53 2,359.6 2,243.8
7N/12W-15C	11259B	2,348.5	Prior to 1924	81.2	83.3	- 2.1	Prior to 1924 9- 5-51 2,356.5 2,263.3
7N/13W-17A	11119	2,421.7	1937	148.3	153.4	- 5.1	3- 8-39 12- 1-53 2,336.1 2,268.3
7N/13W-35A	9864A	2,443.6	1937	230.9	269.6	-38.7	3- 8-39 12- 7-53 2,313.8 2,174.0
8N/10W-19A	11423	2,342.5	1939	116.9	123.3	- 6.4	4- 9-41 11- 7-51 2,312.3 2,218.1
8N/12W-22B	11253	2,302	1943	25.2	26.0	- 0.8	Flowing 1943 11-23-53 2,302 2,276.0

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN ANTELOPE VALLEY

In Feet
(continued)

Well numbers	:	R.P.	:Beginning:	Depth to	:	Change:	Date and extreme
Bulletin :	:	eleva-	of	ground water	:	in	ground water level
No. 39-J : Location	:	tion :	record :	1952 :	1953 :	tion :	Maximum : Minimum
8N/14W-14A	11072	2,495.5	1943	185.3	186.1	- 0.8	5- 4-44 11-23-53 2,358.8 2,309.4
8N/15W-36A	10976	2,786.5	1943	89.9	81.8	+ 8.1	12- 8-47 12- 3-51 2,713.0 2,695.9
8N/16W- 5A	12099	2,901.	1942	198.6	202.3	- 3.7	12- 8-47 11-14-42 2,709.8 2,682.3

Santa Clara River Valley

Oxnard Plain Basin. Water levels in observed wells in Oxnard Plain Basin dropped approximately three feet between the fall of 1952 and the fall of 1953, with some levels dropping to over 50 feet below sea level in the trough in the piezometric surface, observed about two to three miles inland from the coast. Pressure levels underlying most of the Basin were below sea level in the fall of 1953, permitting the intrusion of sea water to continue.

Oxnard Forebay Basin. Depths to ground water increased an average of 12 feet in 1952-53, despite the spreading of 21,800 acre-feet of local runoff by United Water Conservation District at artificial recharge grounds near Saticoy during the year.

Changes in ground water level elevations in selected basins in Ventura County from the fall of 1952 to the fall of 1953, are presented in Table 7.

TABLE 7
CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN VENTURA COUNTY

In Feet

Well numbers		:	:	:	Depth to		:	Change:	Date and extreme	
		:	R.P.	Beginning:	ground water		:	in	ground water level	
:	:	:	eleva-	of	Fall	Fall	:	eleva-	elevations of record	
State	County	:	tion	record	1952	1953	:	tion	Maximum	Minimum
<u>Ojai Valley</u>										
4N/22W- 5L1	8-L- 5								4-28-41	9-11-51
4N/22W- 5L8	8-L- 5A	891.7	1924	124.9	157.2	-32.3			841.2	579.7
4N/23W- 1L1	7-L- 1	787.2	1927	13.6	18.5	- 4.9			4-28-41 785.1	10-20-30 761.7
<u>Oxnard Plain Basin</u>										
1N/22W- 3F4	9-U- 9	54.5	1916	67.0	70.0	- 3.0			Flowing spring 1917 54.5	8-31-51 -24.5
1N/22W-17C1	8-V- 1	20.1	1927	31.1	33.8	- 2.7			Flowing 1948 20.1	8-24-51 -19.1
1N/22W-23J1	10-V- 4	26.0	1927	51.9	54.5	- 2.6			1- 6-28 25.8	7-16-51 -34.1
<u>Oxnard Forebay Basin</u>										
2N/21W- 6P1	11-R- 3	150.2	1930	61.0	90.4	-29.4			3-17-47 139.1	9-27-51 47.0
2N/22W-23H1	10-S- 4									
2N/22W-23H2	10-S-10								4-26-44	11-14-51
2N/22W-23H3	10-S-15	109.8	1927	93.8	98.0	- 4.2			78.6	-4.1
2N/22W-23Q1	10-S- 6	102.2	1929	99.8	102.2	- 2.4			4-26-44 73.6	10-24-51 -7.0
<u>Santa Paula Basin</u>										
2N/22W- 2R1	10-R- 4	136.8	1923	74.7	101.9	-27.2			5-12-41 119.5	10- 5-51 26.5
3N/21W-11E2	13-O- 4	317.1	1929	104.8	99.0	+ 5.8			3-20-41 259.2	10-11-51 210.4

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN VENTURA COUNTY

In Feet
(continued)

Well numbers	:	:	:	Depth to	:	Change:	Date and extreme
:	:	R.P. :	Beginning:	ground water	:	in :	ground water level
:	:	eleva-:	of :	Fall :	Fall :	eleva-:	elevations of record
State :	County	tion :	record :	1952 :	1953 :	tion :	Maximum : Minimum

Santa Paula Basin (continued)

3N/21W-20M1	11-P- 1	231.1	1912	46.6	51.6	- 5.0	5- 8-41 206.9	8-21-51 173.3
-------------	---------	-------	------	------	------	-------	------------------	------------------

Fillmore Basin

3N/20W- 6J1	14-O- 3	307.5	1922	16.0	16.2	- 0.2	1- 9-39 302.8	8-17-51 285.5
-------------	---------	-------	------	------	------	-------	------------------	------------------

4N/20W-36N2	16-N- 5	376.4	1927	14.2	20.3	- 6.1	5- 6-41 379.9	12-13-51 334.2
-------------	---------	-------	------	------	------	-------	------------------	-------------------

Piru Basin

4N/18W-19P1	20-M- 5	665.7	1947	134.9	158.5	-23.6	1- 2-47 560.7	12- 1-51 449.1
-------------	---------	-------	------	-------	-------	-------	------------------	-------------------

4N/19W-25L4	19-N- 6 19-N- 6A	583.0	1927	60.5	81.4	-20.9	4-26-41 573.4	12- 7-51 448.4
-------------	---------------------	-------	------	------	------	-------	------------------	-------------------

Pleasant Valley Basin

1N/21W-11G1	13-U-21	54.7	1936	108.5	120.7	-12.2	5-20-41 30.8	7-17-51 -74.7
-------------	---------	------	------	-------	-------	-------	-----------------	------------------

1N/21W-16A1	12-V- 2	29.7	1927	53.9	72.2	-18.3	Flowing 1927 30.2	8-15-51 -55.3
-------------	---------	------	------	------	------	-------	-------------------------	------------------

2N/21W-34J1	12-T- 7	83.0	1931	127.9	128.6	- 0.7	3-11-32 40.7	8-24-53 -45.6
-------------	---------	------	------	-------	-------	-------	-----------------	------------------

Las Posas Valley

2N/20W-10R1	15-R- 3	355.8	1927	178.0	180.8	- 2.8	1-10-28 309.4	1-30-52 174.8
-------------	---------	-------	------	-------	-------	-------	------------------	------------------

2N/21W-16R1	12-S- 2	326.9	1927	271.7	283.3	-11.6	7-15-27 115.1	8-31-53 43.6
-------------	---------	-------	------	-------	-------	-------	------------------	-----------------

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN VENTURA COUNTY

In Feet
(continued)

Well numbers	:	:	:	Depth to	:	Change:	Date and extreme
:	:	R.P. :	Beginning:	ground water	:	in :	ground water level
:	:	eleva-:	of :	Fall :	Fall :	eleva-:	elevations of record
State :	County :	tion :	record :	1952 :	1953 :	tion :	Maximum : Minimum

Simi Basin

2N/18W- 8C2	20-R- 6	746.4	1929	42.0	62.4	-20.4	Flowing 1930 746.4	7-16-53 684.0
2N/18W-12L3	22-R- 5	949.1	1929	200.1	200.6	- 0.5	10-13-29 826.3	10- 2-53 748.5

San Fernando Valley

Ground water levels in San Fernando Valley declined about four feet in the central and eastern portions and exhibited little change in the western portion in 1952-53. Depths to ground water varied from a minimum of approximately four feet in the western portion of the Valley to a maximum of about 260 feet north of Van Nuys in the fall of 1953. The City of Los Angeles and Los Angeles County Flood Control District spread approximately 10,300 acre-feet of water at spreading grounds in the Valley during 1952-53. Table 8 presents changes in ground water levels in selected wells from the fall of 1952 to the fall of 1953.

TABLE 8
CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN SAN FERNANDO VALLEY

In Feet

Well numbers	:	R.P.	:	Beginning	:	Depth to	:	Change	:	Date and extreme
:	:	eleva-	:	of	:	ground water	:	in	:	ground water level
Serial	:	tion	:	record	:	Fall	:	eleva-	:	elevations of record
Location	:	:	:	:	:	1952	:	tion	:	Maximum : Minimum
	:	:	:	:	:	1953	:	:	:	

Verdugo Basin

A-98	3961	965.2	1931	43.2	44.2	-1.0	10-20-44 941.7	10-20-50 881.0
------	------	-------	------	------	------	------	-------------------	-------------------

San Fernando Basin

A-15	4757A	791.2	1920	8.4	7.9	+0.5	5- 7-52 785.8	2-25-21 765.9
A-31	4855	903.0	1910	251.9	261.6	-9.7	7-12-44 715.4	12- 8-31 641.9
A-62a	3620	769.9	1922	14.3	14.5	-0.2	2-25-41 766.6	10-10-34 753.3
A-82	3804	633.9	1922	40.7	43.0	-2.3	3-22-44 620.8	11- 4-53 590.9
A-90p	3872D	546.0	1928	51.7	58.0	-6.3	4-18-41 542.9	11-12-53 488.0

San Gabriel Valley

Raymond Basin Area. Ground water level observations in selected wells in Pasadena Subarea of Raymond Basin Area indicate that there was a general drop in levels of about two feet between the fall of 1952 and the fall of 1953; however, a maximum rise of approximately 15 feet was noted in the southern part of the subarea, near Raymond fault. The use of ground water in Raymond Basin Area has been controlled by Court decree since July 1, 1944.

In Santa Anita Subarea, ground water levels exhibited an appreciable drop in 1952-53, averaging about a 19-foot decline in most areas. About 320 acre-feet of water were spread by City of Sierra Madre and Los Angeles County Flood Control District at spreading basins within the subarea.

Main San Gabriel Basin. Ground water levels in Main San Gabriel Basin dropped an average of about five feet in 1952-53, with water levels in Well No. C-294a, "Baldwin Park Well", dropping approximately six feet, as depicted on Plate 2. Depths to ground water in this Basin varied from about 300 feet near Azusa to zero in the area of rising water at Whittier Narrows in the fall of 1953. Changes in ground water level elevations in selected basins in San Gabriel Valley are presented in Table 9.

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN SAN GABRIEL VALLEY

Well numbers	: R.P.	: Beginning:	Depth to ground water	: Change:	Date and extreme
:	: eleva-	: of	Fall : Fall	: eleva-	elevations of record
Serial	: Location	: tion : record	: 1952 : 1953	: tion :	Maximum : Minimum

C-16a &b	4043D &E						5- 2-16	10-16-33
C-16	4043A	916.5	1904	257.9	257.4	+ 0.5	767.4	614.0
C-28	4057H	749.9	1904	110.0	110.8	- 0.8	1-22-10 721.2	2-10-39 608.3
C-122a	4107B	623.5	1928	120.0	110.0	+10.0	4- 3-50 526.9	12-31-43 401.0
C-99	4163A							
C-130a	4163B						2-22-16	9-30-49
C-130	4163	677.0	1900	165.9	188.2	-22.3	578.2	470.7

C-212f	2902B	308	1931	98	105	- 7	4- 1-45 260	9-15-53 203
C-241	4177	416.6	1919	156.6	158.2	- 1.6	8-11-44 317.0	10-19-51 253.4
C-294	3030						5-19-16	11-28-51
C-294a	3030F	387.7	1903	126.1	134.2	- 8.1	329.1	245.7
C-312	3055	342.3	1928	89.1	89.6	- 0.5	3-29-45 312.2	10-18-51 245.6
C-337	4329	657.0	1919	281.0	274.7	+ 6.3	1919 437.0	12-19-29 362.5

C-405	4355	950	1915	433.3	425.7	+ 7.6	8- 1-17 652.0	11- 1-51 504.1
-------	------	-----	------	-------	-------	-------	------------------	-------------------

Coastal Plain, Los Angeles County

Montebello Forebay Area. Ground water levels in Montebello Forebay Area declined approximately nine feet in 1952-53. Approximately 7,400 acre-feet of water were spread in artificial recharge grounds adjacent to the Rio Hondo and San Gabriel River by Los Angeles County Flood Control District during the water year 1952-53.

Central Coastal Plain Pressure Area. Pressure levels in Central Coastal Plain Pressure Area dropped approximately eight feet in 1952-53, with pressure levels remaining below sea level in most of the basin. In the fall of 1953, the piezometric surface was as much as 83 feet below sea level approximately five miles north of Long Beach.

West Coast Basin. The piezometric surface underlying the West Coast Basin declined about two feet in 1952-53, and remained below sea level throughout the entire Basin. In the fall of 1953, the trough in the piezometric surface remained from six to nine miles inland from Santa Monica Bay with pressure levels being as much as 104 feet below sea level in the trough two miles northeast of Wilmington. Replenishment to this Basin continued to be principally from the seaward side of the trough.

In February, 1953, the Los Angeles County Flood Control District commenced operation of a field experiment in the Manhattan Beach-Hermosa Beach area in West Coast Basin concerning the intrusion of sea water. The purpose of the experiment was to investigate hydraulic feasibility of creating a pressure ridge in confined aquifers by means of injection wells and effectiveness of such a ridge in preventing sea-water intrusion. The study was conducted with funds provided by the State Water Resources Board under Chapter 1500, Statutes of 1951.

Depths to ground water in 13 wells in the Montebello Forebay Area, Central Coastal Plain Pressure Area, and West Coast Basin for the fall of 1952 and the fall of 1953 are presented in Table 10.

CHANGES IN GROUND WATER LEVEL ELEVATIONS IN COASTAL PLAIN, LOS ANGELES COUNTY

Well numbers	: R.P.	: Beginning	: Depth to ground water	: Change in	: Date and extreme
: Serial	: Location	: tion	: record	: Fall 1952	: Fall 1953
		: eleva-	: of	: Fall	: Fall
		: tion	: record	: eleva-	: elevations of record
				: tion	: Maximum
					: Minimum

C-814	1620						4- 1-44	12- 1-53
C-801b	1620E	181.7	1904	100.0	110.0	-10.0	164.7	71.7
C-839c	1585	130.0	1930	104.0	113.0	- 9.0	4-19-42 106.5	9- 3-53 17.0
C-844w	1582M	152.5	1940	107.2	117.6	-10.4	4-27-42 128.7	12-14-53 34.9

B-12y	2626H	88	1944	152	173	-21	2-15-45 8	10-8-53 -85
B-51b	1413	140.6	1911	134.6	143.5	-8.9	1911 115.6	11-19-53 -2.9
C-873f	1548B	87	1944	54	59	-5	4-1-45 70	7-24-53 28
C-894	1062	61.7	1925	72.4	76.9	-4.5	3-11-27 58.4	8-24-53 -15.2
C-935i	906D	90.5	1932	162.4	173.6	-11.2	4-3-33 15.4	9-14-53 -83.1

B-90m	734	94.1	1934	124.7	126.7	- 2.0	November-34 -9.8	10-13-53 -32.6
B-103d	785C	68	1943	115	118	- 3	8- 1-48 -35	3-24-51 -52
B-115g	858B	35.0	1924	133.0	138.5	- 5.5	4-11-24 -10.0	10-29-53 -103.5
B-120b	868A	20.4	1943	118.5	124.4	- 5.9	3- 1-43 -37.4	7-31-53 -104.0
B-136	381	8.0	1923	17.8	17.2	+ 0.6	3-20-23 4.0	10-31-52 -9.8

Upper Santa Ana Valley

Chino Basin. Ground water levels underlying Chino Basin generally dropped about six feet in 1952-53, although there was a slight rise in levels in observed wells west of Fontana. Observed depths to ground water varied from approximately 430 feet in higher valley areas near the southern toe of the San Gabriel Mountains to about seven feet northeast of Norco, adjacent to Santa Ana River, in the fall of 1953.

Bunker Hill Basin. As presented in Table 11, water levels in observed wells exhibited an appreciable drop between the fall of 1952 and the fall of 1953, averaging approximately 16 feet, although a drop of 30 feet was recorded in a well west of Redlands. The water level in well No. E-109, "Williams Well", exhibited a net drop of approximately 80 feet from 1943 to the fall of 1953, as illustrated on Plate 2. The San Bernardino Valley Water Conservation District spread approximately 5,300 acre-feet of water at artificial recharge works adjacent to the Santa Ana River and its tributaries during 1952-53.

TABLE 11

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN UPPER SANTA ANA VALLEY

In Feet

Well numbers	: R.P.	: Beginning	: Depth to	: Change	: Date and extreme
: Location	: eleva-	: of	: ground water	: in	: ground water level
: Serial	: tion	: record	: Fall : Fall	: eleva-	: elevations of record
: Location	: tion	: record	: 1952 : 1953	: tion	: Maximum : Minimum

Live Oak Basin

C-595	4438	1,134.3	1905	153.4	156.6 - 3.2	11-11-05 987.8	1-25-30 818.8
-------	------	---------	------	-------	-------------	-------------------	------------------

Chino Basin

D-716	17650	1,212.8	1931	515.0	521.0 - 6.0	1-30-31 746.8	12- 1-53 691.8
D-743z	3277A	746.0	1904	114.6	116.6 - 2.0	4-14-05 744.6	8- 4-53 629.4
D-908f	16793C	607.5	1939	32.7	33.7 - 1.0	4-15-41 605.9	10- 6-53 573.8
D-1033	17772	1,046.8	1930	286.8	308.0 -21.2	6- 7-30 781.5	7- 2-53 738.8
D-1044	17804	959.0	1912	197.5	196.7 + 0.8	4-15-24 795.3	3- 4-52 754.9

Lytle Basin

D-1188a	18724	1,455.9	1912	248.9	242.2 + 6.7	6-16-16 1,458.2	11-13-50 1,171.4
---------	-------	---------	------	-------	-------------	--------------------	---------------------

Devil Canyon Basin

E-10	18782	1,412.0	1918	198.1	196.3 + 1.8	3-13-18 1,331.5	8- 4-52 1,213.9
------	-------	---------	------	-------	-------------	--------------------	--------------------

Bunker Hill Basin

E-37	18827	1,130.3	1888	79.9	94.0 -14.1	1888 1,147.1	8-14-53 1,036.3
E-107b	18075	1,206.9	1900	122.3	138.1 -15.8	3- 2-23 1,171.1	10-21-53 1,068.8
E-109	18080	1,150.2	1892	67.2	82.0 -14.8	Feb. 1894 1,158.2	12-26-53 1,068.2

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN UPPER SANTA ANA VALLEY

In Feet
(continued)

Well numbers	: R.P.	: Beginning	: Depth to	: Change	: Date and extreme
:	: eleva-	: of	: ground water	: in	: ground water level
Serial	: Location	: tion	: record	: 1952 : 1953	: eleva-: elevations of record
					: Maximum : Minimum

Yucaipa Basin

E-132	18206	2,131.8	1919	137.0	137.9	- 0.9	12- 2-19 2,087.8	11-28-53 1,993.9
-------	-------	---------	------	-------	-------	-------	---------------------	---------------------

Riverside Basin

E-75	17964C	921.2	1915	50.5	58.7	- 8.2	6-23-21 905.6	10-18-36 851.7
E-192	17012	846.3	1928	79.5	80.2	- 0.7	2-28-28 783.8	9-17-34 761.2

Coastal Plain, Orange County

East Coastal Plain Pressure Area. In 1952-53, pressure levels in East Coastal Plain Pressure Area declined an average of four feet, although levels at some wells south of Santa Ana rose a few feet. The piezometric surface throughout most of the area remained below sea level in the fall of 1953. The trough in the piezometric surface was observed approximately midway between the coast line and City of Santa Ana, with a portion of the trough surface being as much as 30 feet below sea level in the fall of 1953. The existence of a landward hydraulic gradient in this area has encouraged intrusion of sea water, especially in the Talbert zone in the Santa Ana gap.

Santa Ana Forebay Area. Ground water levels in Santa Ana Forebay Area dropped approximately seven feet in 1952-53, with levels in some areas

remaining below sea level for the third consecutive year. During fiscal year 1952-53, Orange County Water District and Orange County Municipal Water District purchased approximately 28,000 acre-feet of Colorado River water, which was released into the Santa Ana River channel for the purpose of increasing recharge to the forebay area. Seasonal changes in ground water level elevations in five basins in Coastal Plain, Orange County, are presented in Table 12.

TABLE 12

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN COASTAL PLAIN, ORANGE COUNTY

In Feet

Well numbers	:	:	:	Depth to	:	Change:	Date and extreme
:	:	:	:	ground water	:	in	ground water level
:	:	:	:	Fall	:	Fall	elevations of record
Serial : Location	:	:	:	1952 : 1953	:	Maximum : Minimum	

East Coastal Plain Pressure Area

C-909	1028B	25.5	1903	65.3	44.9	+20.4	12-19-24 40.8	7-31-51 -44.5
C-991e	565A	17.4	1929	41.9	52.1	-10.2	1-21-30 15.4	7-29-53 -34.7
C-1160e	14484F	84.9	1941	101.6	102.9	- 1.3	1-11-45 28.9	9-15-53 -18.0
C-1243	13322	40.1	1904	36.4	30.8	+ 5.6	Flowing 1904 40.1	7-15-52 3.7
C-1257	13231	14.0	1922	32.2	36.4	- 4.2	6-29-22 17.6	3-12-53 -30.8

Santa Ana Forebay Area

C-1056	15626A	201.2	1928	196.0	201.5	- 5.5	5-29-41 85.2	12- 5-51 -6.6
C-1120	14521	153.5	1928	152.4	157.2	- 4.8	4-22-29 56.6	10-10-51 -5.5
C-1129m	1189B	136.1	1898	149.2	152.4	- 3.2	2-22-98 112.7	9-14-51 -17.7

La Habra Basin

C-968	1746A	350.9	1922	56.7	58.2	- 1.5	11-23-43 307.4	2-26-31 280.2
-------	-------	-------	------	------	------	-------	-------------------	------------------

Yorba Linda Basin

C-1097	15640	336.2	1922	190.2	187.7	+ 2.5	8-31-22 198.5	1-26-38 140.8
--------	-------	-------	------	-------	-------	-------	------------------	------------------

Irvine Basin

C-1217a	13451	283.4	1927	278.6	284.8	- 6.2	12-12-27 67.4	9-21-51 -3.2
---------	-------	-------	------	-------	-------	-------	------------------	-----------------

San Jacinto Basin

Ground water levels underlying most of San Jacinto Basin declined in 1952-53, with an average observed drop of approximately six feet. Depths to ground water in the fall of 1953 varied from approximately five feet near the San Jacinto River, northwest of San Jacinto, to about 350 feet, southwest of Valle Vista.

Riverside County Flood Control and Water Conservation District spread approximately 530 acre-feet of water at their artificial recharge grounds adjacent to the San Jacinto River, northeast of Valle Vista, during the water year. Depths to ground water in 10 wells for the fall of 1952 and the fall of 1953 are presented in Table 13.

TABLE 13

CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN SAN JACINTO BASIN

In Feet

Well number	: : R.P. : : eleva- : tion :	: : Beginning: : of : record :	: : Depth to : ground water : Fall : : 1952 :	: : Fall : 1953 : 1953 :	: : Change: : in : : eleva- : tion :	: : Date and extreme : ground water level : elevations of record : Maximum : Minimum
Bulletin No. 39-J						
3S/3W-18A	1,555	1941	86.9	88.3	- 1.4	1-23-41 12-21-53 1,476.3 1,466.7
4S/1W-23A	1,551.2	1936	110.3	119.6	- 9.3	Flowing 4-13-38 10-13-53 1,551.2 1,431.6
4S/1W-33D	1,533.5	1939	101.6	102.3	- 0.7	1-14-42 10-13-53 1,476.6 1,431.2
4S/2W-2C	1,430.7	1939	49.8	53.8	- 4.0	9- 2-39 10-17-53 1,413.6 1,376.9
4S/3W-24C	1,442.2	1937	145.4	156.2	-10.8	3-31-38 10-20-53 1,337.5 1,286.0
4S/3W-32A & C	1,434.8	1904	70.4	70.5	- 0.1	6-20-05 5-10-40 1,403.1 1,358.7
5S/1E-14A	1,890	1939	154.6	163.8	- 9.2	4- 8-42 12- 5-51 1,854.3 1,685.4
5S/1W-10A	1,583.4	1941	155.9	159.8	- 3.9	1-16-42 10-13-53 1,472.8 1,423.6
5S/1W-34B	1,670	1940	77.1	81.6	- 4.5	1-11-45 12-18-53 1,514.5 1,588.4
5S/2W-24B	1,499.8	1914	--	48.6	--	5- 6-16 8-11-48 1,494.7 1,448.6
5S/2W-27E & F	1,476.9	1905	--	46.9	--	5-22-22 12- 4-53 1,463.4 1,430.0
5S/3W-8A	1,412.4	1940	--	158.0	--	5-14-41 12-21-53 1,320.7 1,254.4
6S/2W-6B	1,438.5	1940	--	95.6	--	1- 8-42 12-20-53 1,382.0 1,342.9
6S/3W-4A & B	1,438.3	1914	64.9	67.8	- 2.9	5- 6-16 1-23-53 1,410.3 1,365.4

San Luis Rey Valley

Data presented in Table 14 and on Plate 2 indicate that ground water levels in San Luis Rey Valley dropped approximately six feet between the fall of 1952 and the fall of 1953, and it was also noted that some ground water levels north of Oceanside and southwest of San Luis Rey dropped to about 23 feet below sea level. The existing landward hydraulic gradient permitted continued intrusion of sea water into the coastal portion of this valley.

TABLE 14
CHANGES IN GROUND WATER LEVEL ELEVATIONS
IN SAN LUIS REY VALLEY

In Feet

Well number	: R.P.	: Beginning	: Depth to	: Change	: Date and extreme
State	: eleva-	: of	: Fall : Fall	: eleva-	: elevations of record
	: tion	: record	: 1952 ; 1953	: tion	: Maximum : Minimum
10S/2W-6F1	280.9	1937	7.7 13.0	- 5.3	4-14-41 11-26-51 276.3 266.8
10S/3W-11G1	236.8	1939	16.3 19.9	- 3.6	3-17-17 10- 8-51 232.6 216.9
11S/4W-5G1	59.6	1939	35.8 40.7	- 4.9	4-14-41 10- 5-53 55.5 18.9
11S/4W-9E1	68.6	1940	49.8 56.5	- 6.7	4-14-41 12- 7-53 62.1 12.1
11S/4W-18E1	34.5	1939	47.2 57.2	-10.0	3-30-39 11- 2-53 28.5 -22.7
11S/5W-13P2	24.4	1937	32.1 36.3	- 4.2	4-14-41 5- 4-53 16.9 -13.4

Tia Juana Basin

In 1952-53, water levels in observed wells continued to decline in Tia Juana Basin, with an average drop of about four feet observed in seven wells listed in Table 15. Ground water levels underlying the western portion of the Basin were approximately six feet below sea level in the fall of 1953.

TABLE 15
CHANGES IN GROUND WATER LEVEL ELEVATIONS IN
TIA JUANA BASIN

In Feet

Well numbers	: :Tia Juana: State B&M	: :R.P.: :Reference:	: :Beginning: : of record	: :Depth to: :ground water	: :Fall : : 1952	: :Fall : : 1953	: :Change: : in : : eleva- : tion	: :Date and extreme : ground water level : elevations of record : Maximum : Minimum
18S/2W-32P2	157	6.2	1921	4.8	5.6	- 0.8	4-16-41 5.1	10-17-34 -0.2
18S/2W-33R3	R	24.6	1936	18.3	30.7	-12.4	3-2 -44 21.9	11- 2-53 -6.1
19S/2W-1J3	4	57.2	1924	10.7	12.5	- 1.8	3-15-41 52.9	10- 1-53 44.7
19S/2W-2C3	D	39.4	1924	13.5	17.4	- 3.9	4-16-41 36.6	12- 1-53 22.0
19S/2W-4A13	G	29.3	1924	20.4	24.7	- 4.3	3-15-41 22.7	10- 2-51 4.6
19S/2W-4B1	W	21.8	1936	22.3	27.8	- 5.5	3- 2-44 19.7	8-11-53 -6.0
19S/2W-5A1	'37D	16.6	1937	18.0	21.1	- 3.1	4-16-41 12.2	11- 1-51 -5.0

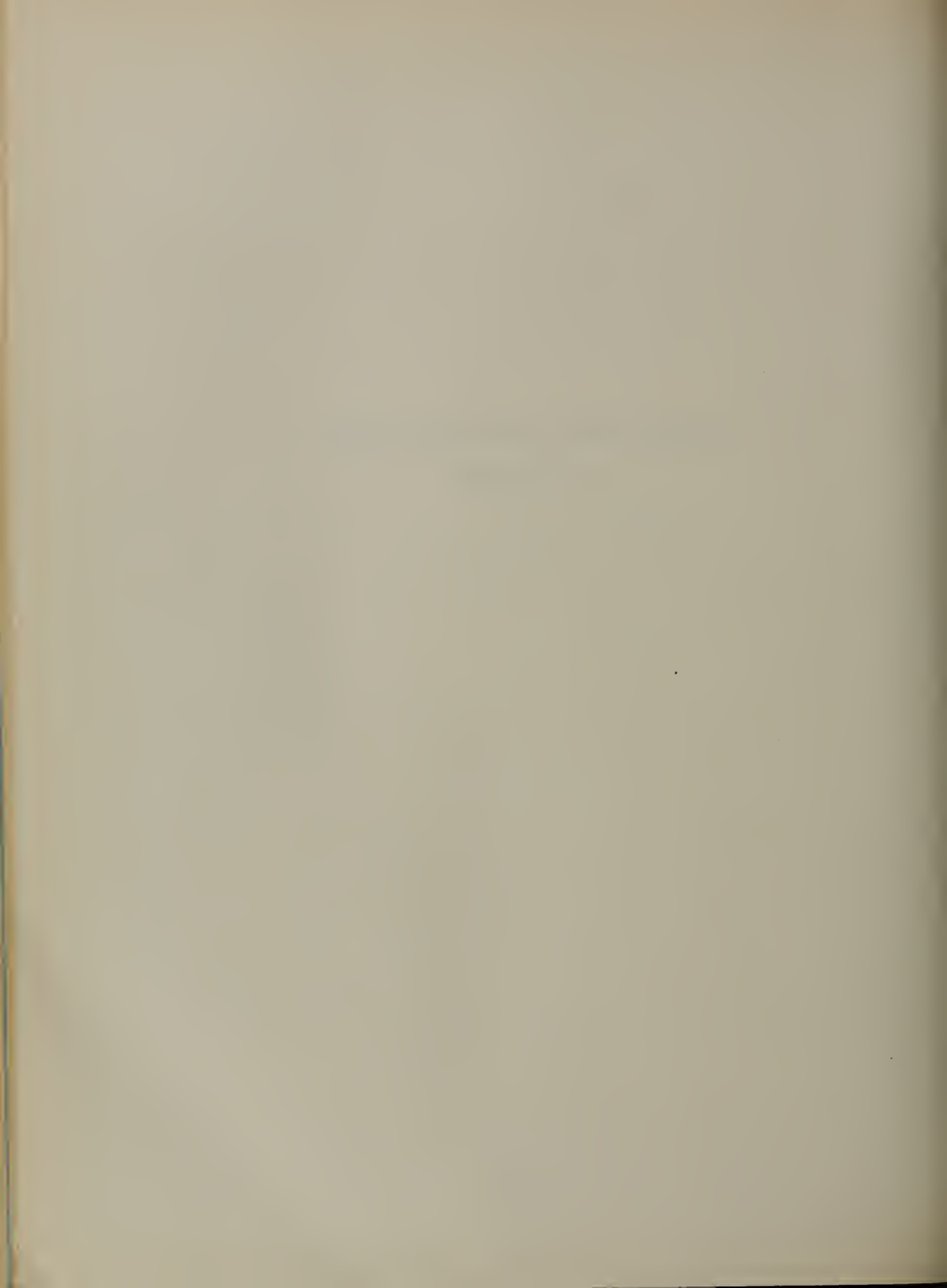
CHAPTER III. RECORDS OF GROUND WATER LEVELS

A tabulation of distance to water surface for approximately 1,000 wells in Los Angeles, San Gabriel, and Santa Ana River Basins and in Antelope Valley is presented on the pages that follow. These records are a continuation of those published in previous reports of the Bulletin 39 series.

Following is a list of abbreviations used in this report:

D.W.R.	Division of Water Resources
L.A.C.F.C.D.	Los Angeles County Flood Control District
L.A.D.W.&P.	Los Angeles Department of Water and Power
L.B.W.D.	Long Beach Water Department
M.W.D.	The Metropolitan Water District of Southern California
O.C.F.C.D.	Orange County Flood Control District
R.C.F.C.&W.C.D.	Riverside County Flood Control and Water Conservation District
R.W.D.	Riverside Water Department
S.A.V.I.Co.	Santa Ana Valley Irrigation Company
S.B.C.F.C.D.	San Bernardino County Flood Control District
S.B.V.W.C.D.	San Bernardino Valley Water Conservation District
S.B.W.D.	San Bernardino Water Department
S.C.W.Co.	Southern California Water Company
S.C.V.P.A.	San Gabriel Valley Protective Association
U.S.G.S.	United States Geological Survey
U.S.W.B.	United States Weather Bureau

Records of Ground Water Levels at Wells
in District "A"



Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

A-3b-B-6	Apr. 28	a	127.2
1245.	Dec. 7	a	133.9
A-4c-B-6	Jan. 9		20.3
1229.8	Feb. 9		18.7
	Mar. 9		21.4
	Apr. 28		22.6
	June 9		23.0
	July 15		24.8
	Aug. 4		24.4
	Sep. 8		24.6
	Oct. 7		24.7
	Nov. 13		24.9
	Dec. 7		25.1
A-4e-B-6	Apr. 8		36.0
1281.8	Dec. 9		38.5
A-5a-C-2	Jan. 7		7.7
959.4	Feb. 9		8.8
	Mar. 9		9.4
	Apr. 13		9.7
	June 9		10.1
	July 15		10.9
	Aug. 11		10.9
	Sep. 11		11.7
	Oct. 6		11.7
	Nov. 13		11.5
	Dec. 11		11.2
A-9-D-3	Apr. 3	a	58.5
879.6	Nov. 6	a	57.8
A-10-E-3	May 14		11.7
791.4	June 17		12.1
	July 15		12.2
	Sep. 14		12.6
	Oct. 6		12.7
	Nov. 2		12.7

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

A-12-D-3	Apr. 3	a	13.5
830.0	Nov. 6	a	12.9
A-13-D-3	Jan. 9		21.9
825.9	Feb. 9		21.6
A-15-D-4	Jan. 9		5.9
791.2	Feb. 6		6.0
	Mar. 5		6.3
	Apr. 2		6.4
	May 6		6.3
	Aug. 19		7.6
	Sep. 11		7.7
	Oct. 6		7.9
	Nov. 13		7.9
	Dec. 11		7.6
A-18a-D-4	Apr. 3	a	131.4
869.1	Nov. 13	a	132.8
A-18c-D-4	Apr. 13		52.7
783.0	Dec. 9		53.6
A-22-D-5	Apr. 3	a	192.5
862.5	Nov. 6	a	196.4
A-24-B-5	Apr. 28		44.1
1158.4	Dec. 7		47.2
A-24a-C-5	Jan. 9		19.1
1121.0	Feb. 9		19.2
	Mar. 9		19.0
A-24b-C-5	Apr. 10	a	23.5
1033.8	Nov. 5	a	25.0
A-26-D-5	Jan. 6	a	219.8
879.0	Feb. 3	a	215.6
	Mar. 3	a	220.1

a Meas. from L.A.D.W.&P.

Measts. from L.A.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

A-26-D-5	Apr. 17	220.7
Cont.	May 5	221.3
	June 2	222.3
	July 7	223.6
	Aug. 4	224.5
	Sep. 1	225.5
	Oct. 6	226.6
	Nov. 3	227.2
	Dec. 1	227.5

A-27-D-5	Jan. 9	133.1
794.6	Feb. 6	132.8
	Mar. 4	132.9
	Apr. 3	132.2
	May 7	133.2
	June 4	133.5
	July 16	134.2
	Aug. 7	134.5
	Sep. 10	135.0
	Oct. 7	135.2
	Nov. 12	135.5
	Dec. 10	135.7

A-27a-D-5	Jan. 9	139.1
793.2	Feb. 6	139.2
	Mar. 5	139.4
	Apr. 3	139.7
	Nov. 12	143.1
	Dec. 10	143.4

A-28b-B-6	Apr. 28	23.5
1130.7	Dec. 7	23.4

A-31-D-6	Feb. 6	251.2
903.0	Mar. 5	251.5
	Apr. 3	252.4
	May 7	253.4
	June 4	254.3
	July 16	256.1
	Aug. 7	257.2
	Sep. 10	258.6

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

A-31-D-6	Oct. 7	259.3
Cont.	Nov. 13	260.5
	Dec. 10	260.6

A-31a-D-6	Jan. 9	178.8
820.2	Feb. 11	179.0
	Mar. 5	174.4
	Apr. 3	180.6
	May 7	181.3
	June 4	182.5
	July 16	184.4
	Aug. 7	185.6
	Sep. 10	187.0
	Oct. 7	188.2
	Nov. 12	187.9
	Dec. 10	187.9

A-35-D-6	Jan. 9	246.5
*886.6	Feb. 11	246.4
	Mar. 5	247.8
	Apr. 3	247.1
	May 7	248.0
	June 4	248.9
	July 17	251.0
	Aug. 7	252.1
	Sep. 10	252.2
	Oct. 7	a

A-37-C-7	Apr. 9	176.3
1204.2	Nov. 6	185.1

A-41-C-7	Apr. 8	34.8
1099.1	Nov. 6	42.4

A-44-C-7	Jan. 9	b	42.4
1164.1	Feb. 9	b	43.0
	Mar. 9	b	44.4
	Apr. 27	b	46.6
	June 9	b	48.4
	July 15	b	50.8
	Aug. 11	b	49.6

* New elevation; R.P. changed.

a Dry at 252.2 feet.

b Meas. from L.A.C.F.C.D.

Measts. from L.A.D.W.&P. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

A-44-C-7	Sep. 8		49.7
Cont.	Oct. 7		48.7
	Nov. 9		49.4
	Dec. 1		50.8
A-45-C-8	Apr. 8	a	25.6
1159.8	Nov. 6	a	26.7
A-48-C-8	Apr. 10		51.5
1286.1	Dec. 1		56.9
A-50b-D-9	May 5		147.9
1750.	Dec. 8		146.6
A-54e-D-10	Apr. 29		55.8
1498.	Dec. 7		56.5
A-56d-E-2	Apr. 2		27.3
882.9	Nov. 13		28.8
	Dec. 14		28.7
A-58d-E-3	Apr. 2	a	15.3
798.6	May 8		18.4
	Dec. 2		16.0
A-60-E-3	Apr. 2	a	17.3
793.6	Nov. 13	a	18.2
A-62a-E-3	Jan. 9	a	13.9
769.9	Feb. 6	a	14.0
	Mar. 6	a	14.1
	Apr. 2	a	13.6
	May 6	a	13.8
	June 3	a	13.8
	July 8	a	14.1
	Aug. 7	a	13.7
	Sep. 11	a	14.1
	Oct. 7	a	14.0
	Nov. 5	a	14.3

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

A-62a-E-3	Dec. 9	a	14.5
Cont.			
A-71a-E-5	Apr. 3		9.8
723.9	Nov. 5		10.6
A-72-E-5	Apr. 2	a	57.4
732.5	Nov. 5	a	59.2
A-73-E-5	Jan. 14		25.3
690.1	Apr. 22		25.8
	May 13		26.0
	July 15		26.7
	Aug. 11		26.8
	Sep. 14		27.7
	Oct. 6		27.5
	Nov. 2		27.3
	Dec. 2		27.2
A-74-E-5	Jan. 15		89.7
732.6	Feb. 6		89.9
	Mar. 4		91.8
	Apr. 3		93.1
	May 7		93.2
	June 4		94.6
	July 16		96.6
	Aug. 7		98.0
	Sep. 10		98.8
	Oct. 7		97.8
	Nov. 12		98.1
	Dec. 10		97.8
A-75-F-6	Jan. 14		19.0
654.3	Feb. 18		19.5
	Mar. 16		19.8
	Apr. 15		20.2
	May 13		20.3
	June 17		20.5
	July 15		21.8
	Aug. 11		20.9

a Meas. from L.A.D.W.&P.

Measts. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

A-75-F-6	Sep. 14		21.1
Cont.	Oct. 6		21.2
	Nov. 2		21.4

A-76-E-6	Jan. 9	a	78.5
707.2	Feb. 6	a	80.0
	Mar. 6	a	81.7
	Apr. 3	a	83.7
	May 7	a	84.4
	June 4	a	86.4
	July 16	a	88.5
	Aug. 7	a	90.2
	Sep. 10	a	91.5
	Oct. 7	a	92.9
	Nov. 12	a	88.1
	Dec. 10	a	87.3

A-81d-E-6	Jan. 14		46.3
656.8	Feb. 18		44.6
	Mar. 13		46.0
	Apr. 15		48.5
	May 13		47.5
	June 17		49.4
	July 15		49.1
	Aug. 11		48.9
	Sep. 14		56.7
	Nov. 2		57.0
	Dec. 2		57.5

A-82-F-6	Apr. 2		41.6
633.9	Nov. 4	a	43.0

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

A-89d-E-8	Jan. 13		91.1
621.1	Feb. 3		90.7
	Mar. 3		91.1
	Apr. 8		92.4
	May 5		92.4
	June 2		95.4
	Aug. 4		98.7
	Sep. 1		100.4
	Oct. 6	b	

1952

A-93L-E-8	Mar. 18	c	62.4
506.7	Apr. 1	c	60.8
	May 6	c	58.7
	June 4	c	60.3

1953

Jan. 29		57.8
Feb. 3		56.7
Mar. 3		55.9
Apr. 8		58.0
May 5		60.1
June 2		62.8

A-98-E-10	Jan. 14		43.2
965.2	Feb. 11		39.2
	Mar. 11		42.2
	Apr. 15		43.2
	May 13		43.2
	July 15		44.2
	Oct. 21		44.2
	Dec. 16		44.2

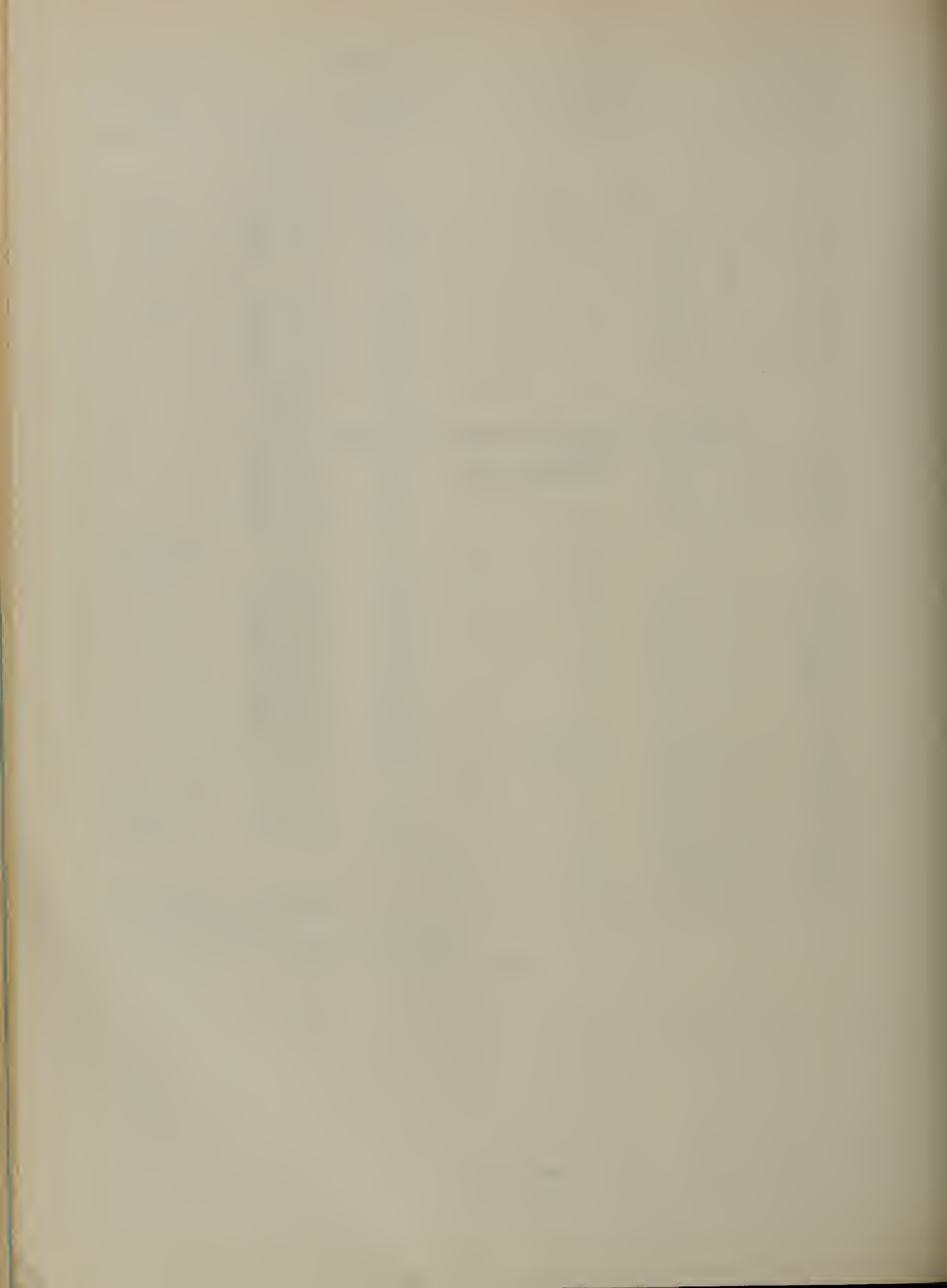
a Meas. from L.A.D.W.&P.

b Dry at 100.4 feet.

c Meas. by owner, from L.A.C.F.C.D.

Measts. from L.A.C.F.C.D. except as noted.

Records of Ground Water Levels at Wells
in District "B"



	:		:	Dist.R.P.
Well Number :	:		:	to water
and :	:		:	surface,
R.P. Elev. :	Date :		:	Feet

	:		:	Dist.R.P.
Well Number :	:		:	to water
and :	:		:	surface,
R.P. Elev. :	Date :		:	Feet

	1952			
B-28-J-6	Oct. 1	a	81.7	
Cont.	Oct. 29	a	81.9	
	Nov. 26	a	81.9	
	Dec. 31	a	81.6	

	1953			
	Jan. 28	a	81.3	
	Feb. 26	a	81.5	
	Mar. 27	a	81.7	
	Apr. 30	a	82.0	
	May 29	a	82.0	
	Sep. 30	a	81.9	
	Nov. 16	b	81.7	

B-28c-J-6	Dec. 16		133.9	
130.6				

B-31-J-6	Nov. 16	b	150.5	
143.0				

B-36b-K-6	Nov. 17	b	215.5	
141.6				

	1951			
B-42-J-8	May 14		240.	
247.	Nov. 26		241.	

	1952			
	May 6		239.	
	Nov. 26		230.	

	1953			
	Dec. 2		241.4	
B-44-K-8	Apr. 20		115.3	
84.2	Nov. 19		118.1	
B-45d-K-8	Nov. 18		90.8	
49.5				

	1953			
B-50-J-9	Apr. 14		153.8	
156.1	Dec. 9		115.1	

B-51b-J-9	Apr. 14		138.1	
140.6	Nov. 19		143.5	

B-52-J-8	Apr. 14		197.0	
178.8	Dec. 2		200.1	

	1952			
B-60-J-9	Oct. 5	c	92.6	
159.5				

	1953			
	Apr.	c	108.8	

B-67-K-10	Apr. 16		53.6	
104.	Nov. 20		55.8	

B-69-K-9	Jan. 16	d	95.0	
86.5	Feb. 6	d	95.5	
	Mar. 20	d	98.3	
	Apr. 10	d	99.2	
	May 1	d	99.3	
	June 12	d	107.3	
	July 3	d	110.5	
	Aug. 14	d	111.8	
	Sep. 4	d	110.8	
	Oct. 16	d	110.1	
	Nov. 16	d	110.1	
	Dec. 19	d	107.2	

B-70b-J-10	Jan.		179.	
178.7	Feb.		181.	
	Mar.		184.	
	Apr.		189.	
	May		194.	
	June		190.	
	July		196.	
	Aug.		192.	
	Sep.		196.	
	Oct.		190.	
	Nov.		187.	
	Dec.		186.	

a Meas. from L.A.D.W.&P.

b Meas. from D.W.R.

c Meas. by owner from L.A.C.F.C.D.

d Meas. by S.G.V.P.A. from L.A.C.F.C.D.

Measts. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

B-72e-K-10	Jan. 6	43.2
107.0	Feb. 2	43.6
	Mar. 3	43.9
	Apr. 1	45.1
	May 13	46.1
	June 1	46.4
	July 7	47.6
	Aug. 11	48.0
	Aug. 31	48.2
	Oct. 5	48.2
	Nov. 3	48.0
	Dec. 11	47.3

B-84-L-6	Jan. 15	158.1
142.1	Feb. 25	158.4
	Mar. 20	157.9
	Apr. 17	157.3
	May 15	156.6
	May 25	156.9

B-91-L-7	Jan. 15	110.
61.	Feb. 8	112.
	Mar. 16	114.
	Apr. 16	116.
	May 24	117.
	June 8	118.
	July 16	119.
	Aug. 24	118.
	Sep. 16	117.
	Oct. 8	116.

B-92d-L-8	Apr. 13	47.6
75.5		

B-95-N-7	Apr. 13	142.8
108.7		

B-100-N-8	Jan. 14	118.7
82.	Feb. 10	119.6
	Mar. 9	120.3
	Apr. 6	120.3
	May 11	120.8
	June 2	121.2
	July 6	120.8
	Aug. 11	122.0
	Sep. 14	121.3

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

B-100-N-8	Oct. 13	121.7
Cont.	Nov. 13	121.4
	Nov. 30	123.9

B-101b-L-8	Nov. 23	83.8
45.4	Nov. 27 a	84.5

B-102-L-8	Nov. 27 a	83.0
41.		

B-106-L-8	Jan. 1 b	135.
55.0	Feb. 8 b	130.
	Mar. 8 b	134.
	Apr. 8 b	136.
	May 16 b	134.
	June 16 b	136.
	July 24 b	139.
	Aug. 24 b	138.
	Sep. 24 b	137.
	Oct. 8 b	135.

B-106a-L-9	Apr. 21	113.5
78.9	Dec. 9	115.6

B-108-M-8	Apr. 15 a	75.8
35.6	Nov. 23	77.5
	Nov. 24 a	77.2

B-110b-N-9	Oct. 21	114.7
44.8	Nov. 4	119.9
	Nov. 30 a	108.8

B-113-M-9	Apr. 21	100.3
17.3	Dec. 9	91.8

B-115a-N-9	Jan.	c 104.
40.		

B-115g-N-9	Jan. 1 c	121.0
35.0	Jan. 30 c	123.4
	Feb. 26 c	126.2
	Mar. 31 c	129.4
	Apr. 29 c	130.3
	May 29 c	135.6
	June 30 c	137.2
	Aug. 3 c	138.5

a Meas. from D.W.R.

b Meas. by S.C.W.Co. from L.A.C.F.C.D.

c Meas. from owner.

Measts. from L.A.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

B-115g-N-9	Aug. 31	a	136.9
Cont.	Sep. 30	a	134.5
	Oct. 29	a	135.9
	Nov. 30	a	127.8

B-117-L-10	Apr. 21	b	127.8
97.8	Nov. 23	b	130.3
	Dec. 3	b	137.8

B-118-M-10	Jan. 2		39.0
34.0	Feb. 13		39.1
	Mar. 4		39.3
	May 29		42.2
	June 19		41.2
	July 30		43.0
	Aug. 14		42.6
	Sep. 4		42.9
	Oct. 2		42.4
	Oct. 23		42.8
	Nov. 13		42.6
	Dec. 4		42.2
	Dec. 24		42.1

B-119-M-9	Dec. 9		57.5
24.6			

B-119q-M-10	Apr. 21		36.3
24.9	Dec. 2		38.2

B-122f-L-10	Jan. 16	c	42.7
61.6	Feb. 6	c	43.3
	Mar. 20	c	45.8
	Apr. 10	c	46.4
	May 19	c	50.5
	June 12	c	51.7
	July 24	c	56.5
	Aug. 14	c	55.3
	Sep. 4	c	54.7
	Oct. 10	c	55.0
	Nov. 27	c	51.4
	Dec. 19	c	51.0

B-123e-M-10	Apr. 20		33.6
42.7			

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

B-129-L-10	Apr. 29		66.1
58.1	Nov. 23		73.0

B-129b-M-10	Jan. 23		55.5
37.4	Feb. 13		55.6
	Mar. 4		56.8
	May 29		64.2
	June 19		68.0
	July 30		70.5
	Aug. 14		66.4
	Sep. 4		65.3
	Oct. 2		65.4
	Nov. 13		64.9
	Dec. 4		62.4

B-130e-N-8	Apr. 22	b	226.3
184.0			

B-132-N-8	Apr. 22		118.1
71.2	Dec. 1		119.5

B-133-N-8	May 11	a	108.3
45.2			

B-136-N-10	Jan. 2	d	16.0
8.0	Jan. 23	d	15.7
	Feb. 13	d	15.9
	Mar. 4	d	16.3
	Mar. 27	d	16.2
	May 29	d	16.3
	June 19	d	16.4
	July 30	d	16.8
	Aug. 14	d	17.0
	Sep. 4	d	17.2
	Oct. 2	d	17.0
	Oct. 23	d	17.0
	Nov. 13	d	16.9
	Dec. 4	d	16.0
	Dec. 24	d	16.2

B-136d-N-10	Jan. 2		13.5
7.0	Jan. 23		13.6
	Feb. 13		13.8
	Mar. 27		14.2
	May 29		13.0

a Meas. from owner.

b Meas. from D.W.R.

c Meas. by S.G.V.P.A. from L.A.C.F.C.D.

d Meas. by L.B.W.D. from L.A.C.F.C.D.

Measts. from L.A.C.F.C.D. except as noted.

Records of Ground Water Levels at Wells
in District "C"



Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

C-1c-E-11	Jan. 7	216.2
1172.4	Feb.	213.8
	Mar. 1	215.9
	Apr. 1	217.4
	June 1	221.0
	Oct. 1	242.0
	Nov. 1	242.8
	Dec. 9 a	243.2

C-3-E-11	Jan. 31	258.
1202.2	Feb. 28	256.
	Mar. 31	258.
	Apr. 30	257.
	May 31	260.
	June 30	265.
	July 31	268.
	Aug. 31	270.
	Sep. 30	272.
	Oct. 30	275.
	Nov. 30	273.
	Dec. 31	273.

C-5-E-11	Jan. 7	122.3
1070.6	Feb. 3	120.9
	Mar. 4	121.0
	Apr. 7	121.6
	May 7	122.9
	June 2	123.8
	July 1	127.0
	Aug. 9	131.7
	Sep. 2	134.5
	Oct. 8	139.8
	Nov. 4	139.9
	Dec. 4	138.4

C-7-E-11	Jan. 7	167.4
1109.7	Feb. 3	165.2
	Mar. 4	163.9

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

C-7-E-11	Apr. 7	163.4
Cont.	May 7	163.3
	June 2	163.8
	July 1	165.2
	Aug. 9	170.1
	Sep. 2	172.6
	Oct. 8	176.5
	Nov. 4	177.1
	Dec. 4	178.4

C-10-E-11	Jan. 7	107.8
1046.6	Feb. 3	106.2
	Mar. 4	105.0
	Apr. 7	104.0
	May 7	103.3
	June 2	103.2
	July 1	103.6
	Aug. 9	105.8
	Sep. 2	107.8
	Oct. 8	111.2
	Nov. 4	113.3
	Dec. 4	114.6

C-11-E-11	Apr. 14 a	280.9
1188.5	Dec. 9 a	280.9

C-12-E-11	Jan. 31	189.2
1129.2	Mar. 1	186.
	Apr. 1	186.5
	May 1	186.0
	June 1	186.2
	July 1	188.2
	Aug. 1	188.5
	Sep. 1	187.5
	Oct. 1	187.0
	Nov. 1	187.0
	Dec. 1	186.1

a Meas. from D.W.R.

Measts. from owner except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-16-F-11	Jan.	8	251.0
*	Feb.	3	249.7
	Mar.	3	249.2
	Apr.	7	248.8
	May	7	249.1
	June	2	247.5
	July	1	254.1
	Aug.	3	254.4
	Sep.	2	254.1
	Oct.	11	257.4
	Nov.	3	254.3
	Dec.	1	252.5

C-22-F-11	Jan.	8	235.9
897.9	Feb.	3	235.0
	Mar.	3	235.1
	Apr.	7	234.3
	May	5	234.4
	June	2	232.4
	July	3	237.9
	Aug.	3	238.9
	Sep.	3	239.8
	Oct.	11	241.6
	Nov.	3	241.3
	Dec.	1	238.1

C-31a-F-11	Apr.	10	a	126.6
773.2				

C-42-E-12	Dec.	9	a	310.5
865.6				

C-44-F-12	Jan.	8	324.5
879.	Feb.	3	324.2
	Mar.	3	324.7
	Apr.	7	322.3
	May	5	321.0
	June	2	321.7
	July	5	329.9
	Aug.	6	331.1
	Sep.	3	332.0
	Oct.	12	333.1
	Nov.	3	331.2
	Dec.	2	328.5

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-47-F-12	Apr.	10	a	149.1
698.8	Dec.	11	a	155.5

C-49-F-12	Jan.	1	170.7
720.0	Feb.	1	170.7
	Mar.	1	170.7
	Apr.	1	170.7
	May	1	164.4
	June	1	167.2
	July	1	178.8
	Aug.	1	179.
	Sep.	1	179.
	Oct.	1	182.
	Nov.	1	182.
	Dec.	1	182.

C-52a-F-12	Jan.	8	239.4
791.2	Feb.	16	242.4
	Mar.	3	240.5
	Apr.	7	237.4
	May	5	236.4
	June	2	237.6
	July	5	246.4
	Aug.	3	247.8
	Sep.	3	248.1
	Oct.	12	249.8
	Nov.	3	247.2
	Dec.	2	244.3

C-55-F-12	Jan.	31	182.
736.3	Feb.	28	181.
	Mar.	31	180.
	Apr.	30	179.
	May	31	181.
	June	30	184.
	July	31	188.
	Oct.	31	188.
	Nov.	30	187.
	Dec.	31	185.

C-62-F-12	Jan.	31	87.
673.6	Feb.	28	83.
	Mar.	31	83.
	Apr.	30	85.

* R.P. elev. 916.5 through March 2, 1953; then 916.4.

a Meas. from D.W.R.

Measts. from owner except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-62-F-12	May 31		86.
Cont.	June 30		97.
	July 31		98.
	Aug. 31		104.
	Oct. 31		93.
	Nov. 30		92.
	Dec. 31		91.
C-74-F-12	Apr. 10	a	127.0
676.8	Dec. 10	a	130.9
C-76-F-12	Apr. 10	a	115.6
665.8	Dec. 11	a	120.2
C-101-F-13	Jan. 17		74.0
603.0	Feb. 14		68.0
	Mar. 13		70.0
	Apr. 17		95.0
	May 15		91.0
	June 13		102.0
	July 18		113.0
	Aug. 14		104.
	Sep. 17		108.
	Oct. 22		102.
	Nov. 12		104.
	Dec. 10		96.
C-102-F-14	Apr. 8	a	17.0
594.0	Dec. 16	a	20.1
C-103-F-13	Apr. 9	a	81.0
627.5	Dec. 15	a	82.4
C-111-F-11	Jan. 8		161.9
776.3	Feb. 3		160.8
	Mar. 4		160.4
	Apr. 7		159.3
	May 7		160.0
	June 2		162.3
	July 1		165.0
	Aug. 10		167.8
	Sep. 2		168.6
	Oct. 10		169.5

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-111-F-11	Nov. 4		167.3
Cont.	Dec. 2		165.2
C-115-E-12	Apr. 8	a	48.3
1105.	Dec. 9	a	54.8
C-119-F-12	Jan. 1		113.0
662.5	Feb. 1		113.0
	Mar. 1		112.0
	Apr. 1		111.0
	May 1		110.0
	June 1		112.5
	July 1		115.0
	Aug. 1		116.0
	Sep. 1		120.0
	Oct. 1		126.0
	Nov. 1		128.0
	Dec. 1		127.0
C-130-F-13	Jan. 31		139.2
677.0	Feb. 28		139.2
	Mar. 15		146.0
	Apr. 30		149.0
	May 31		165.8
	June 30		177.7
	July 30		184.0
	Aug. 30		186.2
	Sep. 30		181.0
	Oct. 30		185.0
	Nov. 30		177.0
	Dec. 31		173.0
C-200-F-13	Jan. 2	b	216.1
481.1	Feb. 13	b	215.4
	Mar. 6	b	215.9
	Apr. 17	b	216.0
	May 29	b	215.8
	June 19	b	215.4
	July 10	b	218.3
	Aug. 21	b	217.0
	Sep. 11	b	217.5
	Oct. 2	b	217.6
	Nov. 13	b	217.3
	Dec. 4	b	217.0

a Meas. from D.W.R.

b Meas. from L.A.C.F.C.D.

Measts. from owner except as noted.

	:	:	Dist.R.P.
Well Number	:	:	to water
and	:	:	surface,
R.P. Elev.	:	Date	Feet

1953

C-201-G-12	Jan.	1	a	290.
507.7	Feb.	1	a	290.5
	Mar.	1	a	290.0
	Apr.	1	a	291.0
	May	1	a	290.0
	June	1	a	295.0
	July	1	a	300.0
	Aug.	1	a	300.0
	Oct.	1	a	300.0
	Nov.	1	a	299.5
	Dec.	1	a	299.0

C-204-G-12	Jan.	2	b	263.9
478.9	Feb.	13	b	263.0
	Mar.	6	b	263.0
	Apr.	17	b	266.9
	May	29	b	266.8
	June	19	b	268.0
	Oct.	1	b	267.0
	Nov.	13	b	272.9
	Dec.	4	b	272.1

C-206-G-12	Jan.	31	a	325.
534.6	Feb.	28	a	329.
	Mar.	31	a	328.
	Apr.	30	a	328.
	May	31	a	329.
	June	30	a	330.
	July	31	a	333.
	Aug.	31	a	338.
	Oct.	31	a	337.
	Nov.	30	a	337.
	Dec.	31	a	337.

C-223-G-13	Jan.	22		48.0
306.2	Feb.	13		47.8
	Mar.	27		47.5
	Apr.	17		47.6
	May	4		47.6
	June	19		48.3

	:	:	Dist.R.P.
Well Number	:	:	to water
and	:	:	surface,
R.P. Elev.	:	Date	Feet

C-223-G-13	July	10		49.4
Cont.	Aug.	21		50.0
	Sep.	11		50.8
	Oct.	23		51.6
	Nov.	13		52.0
	Dec.	24		52.8

C-224-G-13	Jan.	27		57.9
314.5	Feb.	25		56.8
	Mar.	24		59.6
	Apr.	28		59.8

C-230a-H-13	Jan.	22		28.6
281.9	Feb.	13		28.6
	Mar.	6		28.6
	Apr.	17		28.9
	May	4		28.9
	June	19		29.7
	July	10		30.2
	Aug.	21		31.1
	Sep.	11		31.5
	Oct.	23		32.6
	Nov.	13		33.1
	Dec.	4		33.2

C-234-H-13	Jan.	7		10.0
242.6	Feb.	4		9.9
	Mar.	4		9.8
	Apr.	15		10.0
	May	20		10.6

C-237w-H-13	Jan.	7		13.1
240.0	Feb.	4		12.7
	Mar.	4		12.6
	Apr.	1		11.8
	May	27		13.5
	June	17		13.8
	July	8		14.3
	Aug.	12		15.5
	Sep.	2		15.6
	Oct.	7		16.5
	Nov.	4		16.6

a Meas. from owner.

b Meas. from L.A.C.F.C.D.

Measts. by S.G.V.P.A. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-239-H-13	Jan. 2	15.2
228.2	Feb. 13	15.3
	Mar. 6	15.2
	Apr. 17	16.2
	May 4	15.9
	June 19	16.9
	July 10	17.5
	Aug. 21	18.1
	Sep. 11	18.3
	Oct. 2	18.4
	Nov. 13	18.5
	Dec. 4	17.8

C-240q-I-13	Jan. 7	5.4
213.0	Feb. 4	7.9
	Mar. 4	6.2
	Apr. 1	8.0
	May 6	8.4
	June 17	9.2
	July 1	10.2
	Aug. 5	11.2

C-241-F-14	Jan. 2	153.4
416.6	Feb. 13	152.5
	Mar. 6	153.1
	Apr. 17	151.8
	May 4	153.8
	June 19	152.0
	July 10	153.4
	Aug. 11	155.6
	Sep. 11	156.3
	Oct. 2	156.9
	Nov. 13	157.5
	Dec. 4	158.2

C-242-F-14	Jan. 23	136.4
404.5	Feb. 13	138.8
	Mar. 6	138.2
	Apr. 17	138.5
	June 19	140.9
	Dec. 15	154.0

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-243-F-14	Jan. 23	143.0
416.5	Feb. 13	144.2
	Mar. 27	145.4
	May 29	149.0
	Nov. 2	161.0

C-243b-F-14	Apr. 15	a 48.4
797.2		

C-243d-F-14	Apr. 17	102.1
699.5	May 5	102.4
	July 10	109.1
	Sep. 11	115.7
	Oct. 2	113.5
	Nov. 13	115.0
	Dec. 4	118.3

C-249-G-14	Jan. 11	70.9
334.8	Feb. 25	71.9
	Mar. 25	72.2
	Apr. 22	73.0
	May 27	74.8
	June 3	75.1

C-259-H-14	Jan. 22	38.6
292.0	Feb. 12	37.9
	Mar. 26	37.1
	Apr. 16	37.2
	May 28	39.4
	June 18	41.8
	July 9	42.1
	Aug. 20	44.6
	Sep. 10	45.9
	Oct. 1	46.6
	Nov. 2	47.7
	Dec. 3	49.1

C-266-H-14	Jan. 2	28.7
294.5	Feb. 12	28.4
	Mar. 5	27.8

a Meas. from L.A.C.F.C.D.

Measts. by S.G.V.P.A. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

C-278-F-15	Jan. 2	18.5
635.1	Jan. 23	15.5
	Feb. 13	16.7
	Mar. 27	24.0
	Apr. 17	28.5
	May 29	35.9
	June 19	39.0
	July 31	46.5
	Aug. 21	49.6
	Oct. 2	51.9
	Dec. 4	60.7

C-280-F-15	Jan. 23	40.2
591.4	Feb. 13	40.5
	Mar. 27	45.7
	Apr. 17	48.5
	May 5	53.0
	June 19	68.3
	July 31	88.3
	Aug. 21	96.3
	Sep. 11	104.1
	Oct. 2	111.4
	Nov. 13	128.9
	Dec. 4	133.4

C-281-F-15	Jan. 6	a	76.0
593.0	Feb. 4	a	71.4
	Mar. 4	a	79.5
	Apr. 8	a	92.6
	May 13	a	107.0
	June 4	a	114.2
	July 2	a	124.0
	Aug. 4	a	137.3
	Sep. 1	a	148.7
	Oct. 6	a	160.6
	Nov. 9	a	172.0

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

C-281-F-15	Dec. 3	a	177.7
Cont.			

C-283-G-15	Jan. 14	179.9
456.6	Feb. 18	181.1
	Mar. 18	182.1
	Apr. 22	184.5
	May 27	187.6
	June 17	189.9
	July 1	191.5
	Aug. 5	195.5
	Sep. 2	198.2
	Oct. 7	201.1
	Nov. 4	202.7
	Dec. 2	203.1

C-285-F-16	Jan. 23	31.0
686.3	Mar. 6	48.5
	Mar. 27	56.3
	Sep. 11	104.2
	Oct. 23	112.1
	Nov. 13	109.2
	Dec. 9	108.0

C-294a-G-15	Jan. 21	114.4
387.7	Feb. 20	115.0
	Mar. 25	115.4
	Apr. 29	117.7
	May 27	120.2
	June 3	120.8
	June 17	122.2
	July 15	125.4
	Aug. 5	127.6
	Sep. 2	130.1
	Oct. 2	132.3
	Nov. 4	134.0
	Dec. 2	134.2

a Meas. from L.A.C.F.C.D.

Measts. by S.G.V.P.A. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-295-G-15	Jan. 21	126.8
401.4	Feb. 11	126.8
	Mar. 4	126.6
	Mar. 25	126.9
	Apr. 15	130.9
	May 27	134.6
	June 17	136.4
	July 8	139.0
	Aug. 19	143.1
	Sep. 9	147.5
	Oct. 21	147.4
	Nov. 11	147.8
	Dec. 2	145.9

C-296-G-15	Jan. 21	148.1
424.7	Feb. 12	147.6
	Mar. 4	147.3
	Apr. 15	148.5
	May 6	149.7
	June 17	154.0
	July 8	156.3
	Aug. 19	161.0
	Sep. 9	162.7
	Oct. 21	166.0
	Nov. 11	166.7
	Dec. 2	166.1

C-300-H-15	Jan. 14	133.3
*	Feb. 11	131.9
	Mar. 11	131.1
	Apr. 22	131.2
	May 27	133.0
	June 17	134.2
	July 1	135.2
	Aug. 5	138.4
	Sep. 2	140.6
	Oct. 7	142.7

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-300-H-15	Nov. 4	144.3
Cont.	Dec. 2	144.7

C-309-H-15	Jan. 22	55.4
320.3	Feb. 12	55.1
	Mar. 26	56.1
	May 28	60.5
	July 9	64.9
	Aug. 20	65.0
	Sep. 10	66.3
	Oct. 1	64.3
	Nov. 12	65.3
	Dec. 3	63.2

C-312-H-15	Jan. 22	73.0
342.3	Feb. 12	74.0
	Mar. 26	74.7
	Apr. 16	79.1
	May 28	80.3
	June 18	82.6
	July 9	88.0
	Aug. 20	92.3
	Sep. 10	89.6
	Oct. 1	86.9
	Nov. 12	87.2

C-316-I-15	Jan. 2	15.6
309.2	Feb. 12	14.0
	Mar. 26	14.8
	Apr. 16	15.8
	May 5	24.0
	June 18	18.7
	July 9	25.6
	Aug. 20	24.3
	Sep. 10	25.0
	Oct. 1	22.4
	Nov. 12	21.9
	Dec. 3	19.7

* R.P. elev. 407.2 through April 1, 1953; then 407.0.

Measts. by S.G.V.P.A. from L.A.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-320-F-16	Jan. 8	14.8
756.3	Feb. 11	20.8
	Mar. 5	32.7
	Apr. 2	34.0
	May 7	37.6
	June 4	40.7
	July 2	43.2
	Aug. 6	47.3
	Sep. 3	45.0
	Oct. 1	39.1
	Nov. 2	16.8
	Dec. 1	16.4

C-322-F-16	Feb. 10	26.6
695.1	Mar. 10	48.6
	Apr. 10	71.5
	May 11	84.4
	June 10	98.9
	July 1	111.5
	Aug. 3	118.9
	Sep. 2	123.1
	Oct. 1	126.1
	Nov. 2	131.9
	Dec. 22	120.6

C-323-F-16	Jan. 16	15.6
693.3	Feb. 11	23.9
	Mar. 12	49.0
	Apr. 2	65.7
	May 7	86.9
	June 4	103.5
	July 9	118.3
	Aug. 13	130.9
	Sep. 3	134.0
	Oct. 1	135.8
	Nov. 5	136.0
	Dec. 10	134.4

C-328-F-16	Jan. 22	a	31.8
671.4	Feb. 12	a	31.8
	Mar. 26	a	57.9
	Apr. 16	a	67.4
	May 28	a	93.6
	June 18	a	104.7
	July 9	a	113.4

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-328-F-16	Aug. 20	a	129.6
Cont.			

C-334-F-16	Jan. 20	a	48.7
631.0	Feb. 10	a	37.3
	Mar. 10	a	36.3
	Apr. 10	a	44.5
	May 12	a	55.1
	June 10	a	62.7
	July 20	a	71.8
	Aug. 3	a	75.0
	Sep. 3	a	81.6
	Oct. 1	a	87.3
	Nov. 2	a	94.4
	Dec. 1	a	99.7

C-335-G-16	Jan. 22	a	252.4
538.2	Feb. 12	a	250.1
	Mar. 5	a	250.1
	Apr. 16	a	252.3
	May 5	a	253.9
	June 18	a	262.2
	July 9	a	264.0
	Aug. 20	a	271.6
	Sep. 10	a	274.2
	Oct. 1	a	277.3
	Nov. 12	a	277.6
	Dec. 3	a	275.2

C-337-G-16	Jan. 22	a	281.0
657.0	Feb. 12	a	280.0
	Mar. 26	a	278.6
	Apr. 16	a	277.8
	May 5	a	277.3
	May 28	a	276.6
	June 18	a	276.3
	July 9	a	275.3
	Aug. 20	a	274.5
	Sep. 10	a	274.4
	Oct. 1	a	274.4
	Nov. 12	a	274.7
	Dec. 3	a	274.6

C-338-G-16	May 28	a	244.0
535.0	June 18	a	245.3

a Meas. by S.G.V.P.A. from L.A.C.F.C.D.

Measts. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-343-H-16	Jan. 21	191.0
477.9	Feb. 11	190.2
	Mar. 11	188.8
	Apr. 22	190.8
	May 27	194.1
	June 17	195.5
	July 1	193.3
	Aug. 5	196.0
	Sep. 2	199.4
	Oct. 28	201.3
	Nov. 4	199.7
	Dec. 2	198.2

C-360-G-16	Jan. 14	182.1
462.4	Feb. 18	180.9
	Mar. 18	180.3
	Apr. 22	181.9
	May 27	184.7
	June 17	191.7
	July 1	193.3
	Aug. 5	196.7
	Sep. 2	198.8
	Oct. 7	202.6
	Nov. 4	203.8
	Dec. 2	199.5

C-362-G-15	Jan. 22	220.2
499.3	Feb. 12	219.1
	Mar. 5	218.7
	Mar. 26	219.6
	Apr. 16	221.2
	May 5	222.9
	May 28	225.9
	June 18	229.6
	July 9	235.1
	Aug. 20	238.9

C-367-F-15	Jan. 21	264.4
548.9	Feb. 11	265.9
	Mar. 25	266.6
	Apr. 15	269.3
	May 27	275.0
	June 17	277.7

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-367-F-15	July 8	280.6
Cont.	Aug. 19	285.8
	Sep. 9	288.1
	Oct. 21	291.8
	Nov. 11	293.0
	Dec. 2	293.5

C-383c-I-13	Apr. 22	a	17.0
219.4	Dec. 1	a	19.6

C-401-F-16	Apr. 30	a	144.0
882.	Dec. 1		162.2

C-401c-F-16	Jan. 22	265.3
704.7	Feb. 12	256.4
	Mar. 5	260.6
	Mar. 26	261.2
	June 18	261.7
	July 9	260.8
	Aug. 20	260.2
	Dec. 3	266.2

C-404a-F-17	Jan. 20	a	124.1
1115.0	Feb. 25	a	117.0
	Mar. 10	a	117.2
	May 4	a	121.8

C-405-F-17	Jan. 1	b	418.5
950.	Feb. 1	b	417.0
	Mar. 1	b	434.3
	Apr. 1	b	414.7

C-426a-F-17	May 4	a	81.2
896.	Dec. 7	a	97.5

C-432-G-17	Apr. 14	a	62.2
739.9	Dec. 2	a	61.4

C-444b-G-17	Jan. 20	a	198.1
741.0	Feb. 24	a	197.7
	Mar. 10	a	197.4
	Apr. 13	a	196.7
	May 4	a	196.4

a Meas. from L.A.C.F.C.D.

b Meas. from owner.

Measts. by S.G.V.P.A. from L.A.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number	:	:	to water
and	:	:	surface,
R.P. Elev.	:	Date	Feet

1953

C-444b-G-17	June 29	196.3
Cont.	July 14	198.4
	Sep. 15	197.8
	Oct. 28	197.6
	Nov. 16	197.4
	Dec. 15	196.5

C-446a-G-17	Jan. 20	91.6
880.6	Feb. 10	92.1
	Mar. 10	90.6
	Apr. 13	93.5
	May 4	93.9
	June 29	94.7
	July 14	94.2
	Aug. 12	94.4
	Sep. 15	93.9
	Oct. 28	93.5
	Nov. 16	93.5
	Dec. 15	93.6

C-446c-G-17	Jan. 20	214.0
869.7	July 14	222.5
	Aug. 12	222.4
	Nov. 20	223.0
	Dec. 5	223.9

C-446e-G-18	Apr. 23	190.6
934.4	Dec. 2	191.7

C-453-G-17	Apr. 14	124.3
531.1	Aug. 19	104.0
	Dec. 1	116.5

C-498-G-18	May 4	192.0
1046.1	Dec. 9	197.7

C-500-G-18	Jan. 28	133.6
1029.0	May 4	131.1
	Dec. 9	140.2

C-512b-G-18	Dec. 15	90.0
983.0		

Measts. from L.A.C.F.C.D.

	:	:	Dist.R.P.
Well Number	:	:	to water
and	:	:	surface,
R.P. Elev.	:	Date	Feet

1953

C-514-G-18	Jan. 28	86.8
971.0	Feb. 18	96.4
	Mar. 18	96.1
	Apr. 8	109.3
	May 13	115.6
	June 17	129.2
	July 9	135.2
	Aug. 5	143.6
	Sep. 3	143.9
	Oct. 7	155.4
	Nov. 5	142.0
	Dec. 2	120.2

C-522-G-18	Apr. 23	54.6
930.0	Dec. 2	63.4

C-522a-G-17	Jan. 20	79.8
906.6	Mar. 25	88.9
	Apr. 14	84.8
	June 16	89.7
	Aug. 12	88.5
	Nov. 20	89.2
	Dec. 15	86.0

C-595-G-19	Apr. 27	149.0
1134.3	Dec. 5	156.6

C-612a-G-18	Apr. 23	176.7
1018.	Dec. 1	179.7

C-649-G-19	Jan. 28	277.
1030.3		

C-655q-F-19	Apr. 13	41.5
1530.9	Nov. 18	13.9

C-656h-F-20	Apr. 23	28.1
1831.0	Nov. 18	33.7

C-656i-F-20	Apr. 23	40.7
2068.6		

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-659i-G-20	Jan. 21	148.0
1511.8	Mar. 11	143.0
	Apr. 21	148.4
	May 5	149.4
	Oct. 28	188.3
	Nov. 16	190.2
	Dec. 9	190.6

C-660c-G-19	Jan. 21	149.5
1319.4	Feb. 10	141.5
	Mar. 11	137.7
	Apr. 21	138.7
	May 5	138.3
	July 22	168.5
	Sep. 22	195.0
	Nov. 16	174.4

C-664-G-20	Jan. 15	350.0
1301.5	May 5	350.0

C-666-G-19	Apr. 23	251.8
1114.	Dec. 1	262.7

1950

C-673-H-19	Mar. 24	212.4
901.	Dec. 13	218.3

1951

Dec. 7	225.6
--------	-------

1952

Apr. 18	222.1
---------	-------

1953

Mar. 24	238.7
---------	-------

C-678k-H-19	Apr. 28	117.2
807.8	Nov. 24	117.0

C-701c-I-17	Jan. 27	29.7
523.3	Feb. 24	28.2
	Mar. 17	27.5

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-701c-I-17	Apr. 14	28.0
Cont.	May 6	30.6
	June 3	33.1
	July 8	35.5
	Aug. 19	38.9
	Sep. 22	40.2
	Oct. 13	39.6
	Nov. 24	37.9

C-703-H-18	Apr. 28	117.0
774.0	Dec. 8	118.0

C-705a-I-17	Apr. 28	24.0
606.5	Dec. 8	29.6

C-707-I-17	Dec. 8	13.5
455.		

C-708-I-15	Apr. 29	55.0
374.	Nov. 23	57.6

C-803g-I-12	Jan. 14	a	57.4
183.	Feb. 18	a	56.6
	Mar. 4	a	56.4
	Apr. 29	a	59.1
	May 27	a	61.8
	June 17	a	64.9
	July 15	a	70.8
	Aug. 12	a	76.1
	Sep. 16	a	84.1

C-803r-I-12	Nov. 21	112.0
211.		

C-804q-I-13	Apr. 22	28.0
230.5	Dec. 4	30.8

C-811a-I-11	Apr. 30	177.1
181.7	May 19	197.2
	June 11	184.2
	July 2	188.4
	Aug. 13	191.1
	Sep. 3	190.7
	Sep. 24	190.4
	Nov. 24	188.3
	Dec. 19	188.5

a Meas. by S.G.V.P.A. from L.A.C.F.C.D.

Measts. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-812-I-11	Jan. 15	123.4
145.3	Feb. 26	128.7
	Mar. 19	126.3
	Apr. 30	130.2
	May 19	136.8
	June 11	132.3
	July 2	132.3
	Aug. 13	138.6
	Sep. 3	139.4
	Oct. 15	141.8
	Nov. 10	141.6
	Dec. 14	144.5

C-832-J-11	Apr. 15	140.
154.5		

C-853-K-13	Feb. 5	84.2
110.	Apr. 9	88.5
	May 18	92.2
	June 11	92.3
	July 2	96.1
	Aug. 13	97.5
	Sep. 24	98.4
	Oct. 15	96.4
	Nov. 24	101.2
	Dec. 17	96.1

C-853a-K-13	Jan. 15	102.0
124.2	Feb. 5	101.6
	Mar. 19	102.4
	Apr. 9	103.0
	May 4	103.7
	June 11	104.9
	July 23	106.8
	Aug. 13	107.9
	Sep. 3	108.7
	Oct. 15	110.4
	Nov. 9	111.1
	Dec. 17	111.7

C-858-L-13	Jan. 23	a 52.8
76.2	Feb. 20	a 59.3

a Meas. from O.C.F.C.D.

Measts. by S.G.V.P.A. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-858-L-13	Mar. 20	a 61.3
Cont.		

C-872-K-11	Jan. 15	50.8
95.9	Feb. 26	51.7
	Mar. 19	53.6
	Apr. 30	52.8
	May 18	57.1
	June 11	57.9
	July 2	60.4
	Aug. 13	59.6
	Sep. 3	59.8
	Oct. 15	59.2
	Nov. 10	58.7
	Dec. 17	57.6

C-872a-K-11	Jan. 19	43.9
87.0	Feb. 23	46.2
	Mar. 23	48.2
	Apr. 20	48.5
	May 25	50.9
	June 15	53.0
	July 6	54.6
	Aug. 3	53.9
	Sep. 7	53.2
	Oct. 5	55.2
	Nov. 2	52.0
	Dec. 7	50.2

C-877d-L-11	Jan. 16	34.0
71.8	Feb. 6	34.6
	Mar. 20	37.7
	Apr. 10	39.7
	May 12	44.4
	June 12	46.6
	July 3	48.0
	Aug. 14	58.4
	Sep. 4	58.6
	Oct. 16	45.8
	Nov. 9	46.0
	Dec. 19	42.5

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-885c-L-11	Jan. 16	25.9
58.0	Feb. 27	27.5
	Mar. 20	30.0
	Apr. 10	31.9
	May 19	35.8
	June 12	39.3
	July 24	42.7
	Aug. 15	40.4
	Sep. 4	39.8
	Oct. 16	38.0
	Nov. 9	33.8
	Dec. 19	36.0

C-886a-L-11	Jan. 16	a	57.6
71.0	Feb. 27		63.1
	Mar. 20		67.3
	Apr. 10		69.2
	May 1		68.2
	June 12		80.0
	July 24		88.4
	Aug. 14		86.7
	Sep. 4		86.1
	Oct. 16		83.7
	Nov. 9		80.0
	Dec. 19		73.9

C-891-L-13	Jan. 15	43.0
58.2	Feb. 26	42.8
	Mar. 19	55.1
	Apr. 9	59.1
	May 18	67.8
	June 11	73.4
	July 2	78.8
	Aug. 13	78.2
	Sep. 3	75.0
	Oct. 15	72.0
	Nov. 9	62.7
	Dec. 17	56.5

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-894-L-13	Jan. 23	b	49.8
61.7	Feb. 20	b	53.4
	Mar. 20	b	62.1
	Apr. 30	b	59.7
	May 26	b	67.1
	June 23	b	70.6
	July 23	b	74.6
	Aug. 24	b	76.9
	Sep. 22	b	73.9
	Oct. 29	b	70.1
	Nov. 24	b	62.1
	Dec. 29	b	63.6

C-896e-M-13	Jan. 23	b	41.5
53.6	Feb. 20	b	45.9
	Mar. 20	b	53.9
	Apr. 30	b	56.3
	May 26	b	67.4
	June 23	b	72.8
	July 23	b	80.2
	Aug. 24	b	76.6
	Sep. 22	b	72.8
	Oct. 29	b	68.3
	Nov. 24	b	57.1
	Dec. 29	b	56.3

C-897k-M-13	Jan. 23	b	36.6
45.2	Feb. 20	b	43.3
	Mar. 20	b	56.2
	Apr. 30	b	52.7
	May 26	b	62.4
	June 23	b	73.0
	July 23	b	81.2
	Aug. 24	b	75.0
	Sep. 22	b	73.8
	Oct. 29	b	69.6
	Nov. 24	b	53.8
	Dec. 29	b	52.5

a Meas. from L.A.C.F.C.D.

b Meas. from O.C.F.C.D.

Measts. by S.G.V.P.A. from L.A.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-900-M-13	Jan. 12	a	40.5
35.3	Feb. 26	a	52.7
	Mar. 16	a	59.3
	Apr. 27	a	66.5
	May 18	a	72.0
	June 8	a	76.1
	July 20	a	90.0
	Aug. 10	a	90.5
	Sep. 21	a	81.5
	Oct. 12	a	78.3
	Nov. 2	a	69.9
	Dec. 14	a	56.5

C-908b-M-12	Jan. 16	a	67.6
46.2	Feb. 27	a	75.2
	Mar. 20	a	74.9
	Apr. 29	a	82.8
	May 20	a	87.8
	June 12	a	94.0
	July 3	a	98.1
	Aug. 14	a	101.2
	Sep. 4	a	101.7
	Oct. 16	a	96.8
	Nov. 9	a	89.9
	Dec. 18	a	84.7

C-908e-M-12	Apr. 24		56.4
32.5	Nov. 27		49.3

C-909-N-13	Jan. 27	b	32.3
*	Feb. 26	b	43.3
	Mar. 24	b	52.5
	July 7	b	43.2
	Aug. 25	b	43.8
	Sep. 29	b	44.9
	Oct. 29	b	41.6
	Nov. 24	b	37.0
	Dec. 31	b	32.1

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-910b-O-13	Jan. 2		18.3
8.1	Feb. 13		20.6
	Mar. 4		24.2
	Apr. 24		27.7
	May 29		28.0
	June 19		30.0
	July 30		33.6
	Aug. 14		34.0
	Sep. 4		33.4
	Oct. 2		32.3
	Nov. 23		30.4
	Dec. 24		26.1

C-910j-O-12	Jan. 2		26.0
17.8	Feb. 13		27.2
	Mar. 4		30.6
	May 29		33.7
	June 19		34.8
	July 30		37.7
	Aug. 14		38.0
	Sep. 4		38.0
	Oct. 23		36.8
	Nov. 13		34.9
	Dec. 24		32.1

C-911-O-13	Jan. 23		20.1
11.8	Feb. 13		22.3
	Mar. 4		27.8
	June 19		36.4
	July 30		40.0
	Aug. 14		41.0
	Sep. 4		39.5
	Oct. 2		37.1
	Nov. 13		32.4
	Dec. 4		31.8

* R.P. elev. 25.5 through March 24, 1953, then 24.5 through August 25, 1953, then 25.5.

a Meas. by S.G.V.P.A. from L.A.C.F.C.D.

b Meas. from O.C.F.C.D.

Measts. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-911b-N-13	Jan. 27	39.1
13.8	Feb. 26	47.0
	Mar. 24	51.3
	Apr. 30	53.5
	May 28	54.5
	June 25	57.4
	July 28	61.5
	Aug. 25	64.8
	Sep. 29	64.6
	Oct. 29	63.1
	Nov. 24	58.3
	Dec. 31	55.2

C-911f-0-12	Jan. 26	30.3
9.0	Feb. 24	30.2
	Mar. 31	31.5
	Apr. 27	32.8
	May 25	33.8
	June 29	35.6
	July 27	37.2
	Aug. 24	38.9
	Sep. 21	40.4
	Dec. 28	39.8

C-912b-0-13	Jan. 12	37.9
32.0	Feb. 24	51.4
	Mar. 31	58.2
	Apr. 27	59.6
	May 11	56.7
	June 29	65.3
	July 27	71.3
	Aug. 24	68.9
	Sep. 28	64.7
	Oct. 26	60.7
	Nov. 23	54.0
	Dec. 28	51.9

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

C-913c-N-11	Jan. 6	a	38.3
37.5	Feb. 2	a	38.8
	Mar. 3	a	38.8
	Apr. 1	a	38.8
	May 13	a	38.8
	June 1	a	38.8
	July 7	a	39.0
	Aug. 11	a	39.0
	Aug. 31	a	39.1
	Oct. 5	a	39.1
	Nov. 4	a	39.2
	Dec. 11	a	39.2

C-914b-N-12	Jan. 27		50.5
31.4	Feb. 26		54.2
	Mar. 24		59.8
	Apr. 30		60.7
	May 28		60.5
	June 25		64.5
	July 28		66.4
	Aug. 25		70.2
	Sep. 29		68.7
	Oct. 29		65.6
	Nov. 24		61.1
	Dec. 31		59.3

C-926-M-11	Jan. 19	a	113.0
68.9			

C-927c-N-14	Jan. 9		51.8
48.3	Feb. 9		58.4
	June 5		83.0
	Sep. 11		87.4
	Oct. 9		82.6
	Nov. 10		73.0
	Dec. 4		65.3

a Meas. from L.A.C.F.C.D.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-929f-L-11	Jan. 26	a	91.8
53.4	Feb. 23	a	96.3
	Mar. 23	a	98.4
	Apr. 27	a	53.0
	May 25	a	113.0
	June 15	a	117.5
	July 6	a	120.5
	Aug. 3	a	124.7
	Sep. 7	a	124.2
	Oct. 5	a	118.2
	Nov. 2	a	118.2
	Dec. 7	a	112.2

C-942a-K-14	Jan. 15	a	103.1
144.	Feb. 26	a	105.1
	Mar. 19	a	111.4
	Apr. 30	a	113.0
	May 18	a	117.4
	June 11	a	122.3
	July 23	a	128.9
	Aug. 13	a	124.6
	Sep. 3	a	126.7
	Nov. 9	a	124.7
	Dec. 17	a	125.6

C-950a-M-14	Jan. 23	b	71.6
70.0	Feb. 20	b	83.3
	Mar. 20	b	93.2
	Apr. 30	b	95.1
	Aug. 24	b	118.3
	Sep. 22	b	117.0
	Oct. 29	b	106.8
	Nov. 24	b	88.8
	Dec. 29	b	95.6

C-950e-M-13	Jan. 23	b	40.5
48.0	Feb. 20	b	46.7
	Mar. 20	b	57.2
	Apr. 30	b	59.2
	May 26	b	69.7
	June 23	b	79.9
	July 23	b	89.3
	Aug. 24	b	82.9

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-950e-H-13	Sep. 22	b	80.0
Cont.	Oct. 29	b	73.4
	Nov. 24	b	58.7
	Dec. 29	b	58.1

C-950n-M-14	Jan. 9	b	65.7
63.7	Feb. 9	b	68.4
	Mar. 10	b	72.7
	Apr. 7	b	94.1
	June 5	b	104.1
	July 7	b	109.2
	Aug. 13	b	111.8
	Oct. 9	b	108.7
	Nov. 10	b	92.3
	Dec. 4	b	81.7

C-957-H-11	Feb. 28		85.
303.0	Apr. 30		85.
	June 30		85.

C-961-I-11	Feb. 28		232.
197.0	Apr. 30		234.
	June 30		249.

C-962-I-11	Feb. 28		209.
196.0	Apr. 30		219.
	June 30		235.

C-963-I-11	Feb. 28		251.
228.3	Apr. 30		256.
	June 30		263.

C-965-I-11	Feb. 28		144.
159.5	Apr. 30		150.
	June 30		153.

C-966-I-11	Feb. 28		154.
145.5	Mar. 31		167.
	June 30		168.

C-968-K-15	Feb. 19	b	57.7
350.9	May 13	b	57.9
	Aug. 20	b	57.9
	Nov. 19	b	58.2

a Meas. by S.G.V.P.A. from L.A.C.F.C.D.

b Meas. from O.C.F.C.D.

Measts. from L.A.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-969a-K-16	Feb. 19	105.1
386.9	Aug. 20	111.1
	Nov. 19	107.6

C-974m-L-16	Jan. 2	171.8
176.0	Feb. 6	169.8
	Mar. 5	170.6
	Apr. 7	172.9
	May 5	173.6
	June 4	176.1
	July 3	178.5
	Aug. 11	182.4
	Sep. 10	183.8
	Oct. 6	183.9
	Nov. 5	183.0
	Dec. 4	180.2

C-974n-M-16	Jan. 6	185.1
197.8	Feb. 5	183.3
	Mar. 3	182.6
	Apr. 3	182.7
	May 1	182.9
	June 4	185.5
	July 2	192.3
	Aug. 6	198.0
	Sep. 1	196.1
	Oct. 8	198.0
	Nov. 3	198.0
	Dec. 1	196.4

C-975-L-16	Jan. 2	144.8
155.6	Feb. 6	144.9
	Mar. 5	144.9
	Apr. 7	145.0
	May 5	144.9
	June 4	145.0
	July 3	144.9
	Aug. 11	146.6
	Sep. 10	147.2
	Oct. 6	148.5
	Nov. 5	148.4
	Dec. 4	148.0

Measts. from O.C.F.C.D.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-975k-L-16	Jan. 2	124.0
129.4	Feb. 6	122.7
	Mar. 5	122.8
	Apr. 7	123.6
	May 5	124.3
	June 4	124.7
	July 3	126.7
	Aug. 11	128.2
	Sep. 10	128.7
	Oct. 6	129.4
	Nov. 5	128.7
	Dec. 4	128.0

C-976c-M-15	Jan. 1	159.
152.9	Feb. 1	159.
	Mar. 1	161.
	Apr. 1	165.
	May 1	165.
	June 1	168.
	July 1	170.
	Aug. 1	175.
	Sep. 1	174.
	Oct. 1	174.
	Nov. 1	174.
	Dec. 1	169.

C-977b-M-16	Jan. 2	163.0
167.9	Feb. 6	158.2
	Mar. 5	162.8
	Apr. 7	163.7
	May 5	162.0
	June 4	169.6
	July 3	171.4
	Aug. 11	183.1
	Sep. 10	178.8
	Oct. 6	185.8
	Nov. 5	173.6
	Dec. 4	172.6

C-978-M-16	Jan. 8	177.2
173.8	Feb. 3	168.0
	Mar. 5	167.7

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-978-M-16	Apr. 3	168.3
Cont.	July 2	180.6
	Aug. 4	181.0
	Sep. 3	181.3
	Oct. 1	182.2
	Dec. 3	182.7

C-978a-M-16	Jan. 19	145.7
149.8	Feb. 24	150.1
	Mar. 31	155.2
	Apr. 27	155.9
	May 25	158.5
	July 5	163.1
	Aug. 10	167.8
	Sep. 14	170.0
	Oct. 26	164.2
	Nov. 30	157.5
	Dec. 28	160.5

C-980-L-15	Jan. 23	107.8
113.3	Feb. 20	108.0
	Mar. 20	109.3
	Apr. 30	114.2
	May 26	115.6
	June 23	116.9
	July 23	118.0
	Aug. 24	120.2
	Sep. 22	120.1
	Oct. 29	119.8
	Nov. 24	115.6
	Dec. 29	115.3

C-982L-M-14	Jan. 9	56.8
91.7	Feb. 9	56.2
	Mar. 10	56.3
	Apr. 7	56.7
	May 7	58.2
	June 5	58.9
	July 7	59.5
	Aug. 13	60.4
	Sep. 11	60.3
	Oct. 9	60.4
	Nov. 10	60.0
	Dec. 4	58.9

Measts. from O.C.F.C.D.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-983e-M-15	Jan. 2	106.0
108.0	Feb. 6	106.1
	Mar. 5	107.5
	Apr. 7	112.1
	May 5	109.1
	June 4	114.0
	July 3	119.6
	Sep. 10	120.3
	Dec. 4	113.3

C-984b-N-14	Jan. 7	53.4
64.7	Feb. 4	53.0
	Feb. 25	57.9
	Apr. 1	62.8
	May 6	65.0
	June 3	69.2
	July 1	71.3
	Aug. 12	76.0
	Sep. 2	72.1
	Oct. 7	70.9
	Nov. 4	66.5
	Dec. 9	60.3

C-985-N-14	Jan. 9	49.9
60.6	Feb. 9	51.4
	Apr. 7	58.0
	July 7	64.9
	Aug. 13	67.6
	Oct. 9	64.5
	Nov. 10	60.9
	Dec. 4	56.6

C-986e-N-15	Jan. 13	116.1
112.1	Feb. 10	115.0
	Mar. 10	115.0
	Apr. 14	118.5
	May 8	120.4
	June 9	122.2
	July 9	122.4
	Aug. 14	124.3
	Sep. 15	124.5
	Oct. 13	124.9
	Nov. 12	124.0
	Dec. 8	122.3

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-991e-0-13	Jan. 28	28.3
17.4	Feb. 18	39.4
	Mar. 18	47.5
	Apr. 22	43.9
	May 13	40.7
	June 17	45.0
	July 29	52.1
	Aug. 19	48.5
	Sep. 2	49.5
	Oct. 14	45.8
	Nov. 18	39.6
	Dec. 9	37.8

C-992b-P-14	Jan. 15	28.8
22.2	Mar. 12	48.4
	Apr. 14	43.2
	May 12	40.0
	June 11	41.8
	July 14	46.1
	Aug. 17	46.1
	Sep. 17	45.3
	Oct. 15	43.3
	Nov. 12	40.4
	Dec. 10	37.3

C-992e-P-13	Jan. 26	24.2
15.4	Feb. 24	40.0
	Mar. 16	45.0
	Apr. 13	38.9
	May 25	36.5
	June 22	38.7
	July 20	43.2
	Aug. 24	41.5
	Sep. 28	40.8
	Oct. 26	38.0
	Nov. 23	34.0
	Dec. 28	33.4

C-993-P-14	Jan. 15	36.5
*	Feb. 17	51.5
	Apr. 14	49.3
	May 12	47.5
	June 11	49.3

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-993-P-14	Aug. 17	54.1
Cont.	Oct. 15	51.8
	Nov. 12	48.5
	Dec. 10	45.1

C-997-P-14	Jan. 15	65.8
56.1	Feb. 17	65.8
	Mar. 12	66.2
	Apr. 14	67.1
	May 12	67.9
	June 11	68.1
	July 14	68.8
	Aug. 17	69.7
	Sep. 17	70.5
	Oct. 15	70.9
	Nov. 12	71.4
	Dec. 10	71.5

C-999f-P-14	Jan. 15	58.2
49.1	Feb. 17	66.2
	Mar. 12	71.0
	Apr. 14	68.7
	May 12	67.1
	June 11	67.5
	July 14	70.5
	Aug. 17	70.2
	Sep. 17	70.3
	Oct. 15	69.0
	Nov. 12	67.2
	Dec. 10	65.3

C-1056-M-16	Jan. 8	191.4
201.2	Feb. 3	179.6
	Mar. 5	179.5
	May 1	177.8
	Aug. 4	198.7
	Dec. 3	201.5

C-1058-M-17	Jan. 8	a	194.3
203.8	Feb. 23	a	191.1
	Mar. 2	a	190.7
	Apr. 13	a	211.6
	May 24	a	209.0

* R.P. elev. 27.9 through August 17, 1953; then 28.9.

a Meas. from S.A.V.I.Co.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1058-M-17	June 30	a	214.0
Cont.	Nov.	a	210.0

C-1065-M-16	Jan. 8		187.8
*	Feb. 3		186.2
	Mar. 5		185.1
	Apr. 3		185.5
	May 1		186.1
	June 2		189.0
	July 2		192.1
	Aug. 4		196.6
	Sep. 3		199.4
	Oct. 1		201.0
	Nov. 2		201.9
	Dec. 3		199.6

C-1073-M-17	Jan. 8		197.7
215.9	Feb. 3		195.6
	Mar. 5		193.4
	May 1		190.7
	Nov. 2		224.8
	Dec. 3		211.2

C-1078d-M-17	Jan. 8		178.6
238.6	Feb. 3		169.2
	Apr. 3		152.0
	May 1		159.9
	June 2		169.4
	Nov. 2		215.8

C-1079a-M-17	Feb. 3		143.0
248.3	Apr. 3		122.9
	May 1		130.4
	Dec. 3		198.7

C-1082-L-18	Jan. 14		36.9
260.8	Feb. 4		31.0
	Mar. 4		25.5
	Apr. 1		22.6
	May 27		35.2
	June 17		40.4

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1082-L-18	July 15		47.0
Cont.	Aug. 19		53.4
	Sep. 23		57.6
	Oct. 21		60.0
	Nov. 18		60.3
	Dec. 16		49.2

C-1085-L-17	Jan. 8		183.5
245.	Feb. 3		173.7
	Mar. 5		166.9
	Apr. 3		160.5
	May 1		158.7
	June 2		163.4
	July 2		169.8
	Aug. 4		183.2
	Sep. 1		192.9
	Oct. 1		196.8
	Nov. 2		201.9
	Dec. 3		202.1

C-1089-L-16	Jan. 8		208.2
228.8	Mar. 5		204.2
	June 2		204.8
	July 2		209.5
	Aug. 4		213.8

C-1097-L-17	Feb. 19		189.4
336.2	July 9		187.7
	Aug. 20		187.4
	Nov. 19		183.4

C-1105a-N-17	Jan. 22		239.1
246.2	Feb. 20		237.8
	Mar. 19		237.2
	Apr. 28		239.8
	May 19		240.0
	June 19		243.0
	July 21		246.6
	Aug. 20		249.5
	Sep. 22		251.7
	Oct. 26		252.0
	Nov. 20		250.9
	Dec. 22		249.8

* R.P. elev. 202.0 through February 3, 1953; then 201.8.

a Meas. from S.A.V.I. Co.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1105b-M-17	Jan. 22	269.0
273.6	Feb. 20	267.4
	Mar. 19	266.2
	Apr. 28	268.7
	May 19	268.5
	June 19	271.2
	July 21	274.6
	Aug. 20	277.6
	Sep. 22	279.8
	Oct. 26	281.0
	Nov. 20	280.8
	Dec. 22	280.0

C-1109g-N-18	Jan. 22	323.4
332.4	Feb. 20	322.8
	Mar. 19	321.9
	Apr. 28	325.2
	May 19	328.6
	June 19	334.4
	July 21	344.9
	Aug. 20	345.3
	Sep. 22	348.2
	Oct. 26	343.2
	Nov. 23	345.0
	Dec. 22	345.6

C-1109i-N-18	Jan. 22	55.3
*	Feb. 20	59.2
	Mar. 19	61.5
	Apr. 28	63.8
	May 19	63.7
	June 19	69.9
	July 21	67.2
	Aug. 20	64.5
	Sep. 22	64.7
	Oct. 26	59.2
	Nov. 20	60.1
	Dec. 22	60.6

C-1112-N-18	Jan. 8	a	299.0
290.4	Feb. 23	a	300.0
	Mar. 2	a	298.0
	May 10	a	305.0

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1112-N-18	June 14	a	302.0
Cont.	July	a	330.0
	Aug.	a	325.0
	Sep.	a	329.0
	Oct.	a	330.0
	Nov.	a	310.0

C-1120-N-16	Jan. 7	147.9
153.5	Feb. 18	146.8
	Mar. 25	147.5
	Apr. 15	148.4
	May 27	149.7
	June 24	151.1
	July 29	154.4
	Sep. 2	156.0
	Sep. 30	156.3
	Oct. 28	157.2
	Dec. 2	155.2
	Dec. 30	155.5

C-1121b-N-17	Jan. 22	169.7
179.4	Mar. 19	170.0
	Apr. 28	172.3
	June 19	178.8
	July 21	183.2
	Aug. 20	184.8
	Sep. 22	185.6
	Oct. 26	184.6
	Nov. 20	183.1

C-1122b-N-16	Jan. 8	155.3
163.1	Feb. 3	154.6
	Mar. 5	154.1
	Apr. 3	154.0
	May 1	154.3
	June 2	154.8
	July 2	155.4
	Aug. 4	156.4
	Sep. 3	157.2
	Oct. 1	158.0
	Nov. 2	158.6
	Dec. 3	158.9

* R.P. elev. 410.2 through July 21, 1953; then 409.9.

a Meas. from S.A.V.I.Co.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1123b-N-16	Jan. 5	139.4
145.	Feb. 16	139.0
	Mar. 16	139.4
	Apr. 20	140.3
	May 25	145.7
	June 8	144.4
	July 6	146.4
	Aug. 10	149.5
	Sep. 14	149.2
	Oct. 26	149.5
	Nov. 23	146.7
	Dec. 14	147.5

C-1126b-M-16	Jan. 5	166.2
175.3	Feb. 16	165.8
	Mar. 31	166.8
	Apr. 20	168.2
	May 18	170.7
	June 29	173.7
	July 20	175.7
	Aug. 17	177.7
	Sep. 21	178.8
	Oct. 26	179.0
	Nov. 23	175.6
	Dec. 21	176.9

C-1128a-N-16	Jan. 13	143.1
140.1	Apr. 14	143.6
	June 9	147.0
	July 9	147.2
	Aug. 14	149.0
	Sep. 15	150.2
	Oct. 13	150.7
	Nov. 12	150.3
	Dec. 8	148.8

C-1129m-N-16	Jan. 13	136.0
136.1	Feb. 10	136.2
	Apr. 14	143.0
	May 8	143.5
	Oct. 13	152.4
	Nov. 12	149.4
	Dec. 8	145.2

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1130a-N-15	Jan. 13	112.2
107.4	Feb. 10	112.4
	Mar. 10	111.7
	Apr. 14	113.4
	May 8	115.0
	July 9	118.5
	Aug. 14	122.5
	Oct. 13	123.9
	Nov. 12	123.3
	Dec. 8	122.8

C-1131-N-17	Jan. 22	152.7
160.2	Feb. 20	152.3
	Mar. 19	152.1
	Apr. 28	154.6
	May 19	154.3
	June 19	158.7
	July 21	163.3
	Aug. 20	163.6
	Sep. 22	164.1
	Oct. 26	162.8
	Nov. 20	162.9
	Dec. 22	162.4

C-1140e-N-16	Jan. 13	124.5
119.0	Feb. 10	123.9
	Mar. 10	123.8
	May 8	128.1
	June 9	129.8
	Aug. 14	132.4
	Oct. 13	135.3
	Dec. 8	130.8

C-1150b-N-17	Jan. 28	a	210.0
206.3	Feb. 3	a	205.0
	Mar. 2	a	205.0
	Apr. 27	a	214.0
	May 10	a	220.0
	Sep. 1	a	231.0
	Oct. 1	a	226.0
	Nov. 1	a	219.0

a Meas. from S.A.V.I.Co.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1153b-O-15	Jan. 13	97.6
93.6	Feb. 10	98.0
	Mar. 10	99.4
	May 8	100.4
	Aug. 14	105.2
	Oct. 13	106.2
	Nov. 12	107.3
	Dec. 8	103.3

C-1157a-N-15	Jan. 26	89.8
85.0	Feb. 24	90.5
	Mar. 31	92.5
	Apr. 20	94.5
	May 25	94.8
	June 29	96.2
	July 27	98.5
	Aug. 24	99.1
	Sep. 28	98.6
	Oct. 26	99.4
	Nov. 23	98.0
	Dec. 28	96.3

C-1162-O-16	Jan. 13	95.7
96.6	Feb. 10	94.7
	Mar. 10	94.9
	Apr. 14	97.0
	May 8	97.5
	June 9	98.5
	July 9	99.5
	Aug. 14	100.7
	Sep. 15	101.1
	Oct. 13	101.5
	Nov. 12	100.0
	Dec. 8	99.9

C-1168-O-15	Jan. 13	82.1
75.5	Feb. 10	82.0
	Mar. 10	85.8
	May 8	87.9
	June 9	87.4
	Oct. 13	86.8
	Nov. 12	91.3

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1168-O-15	Dec. 8	89.4
cont.		

C-1180-P-17	Jan. 16	46.2
38.3	Feb. 17	59.3
	May 14	63.6
	June 16	63.7
	July 16	85.6
	Aug. 18	71.6
	Sep. 17	69.6
	Oct. 20	66.5
	Nov. 17	63.3
	Dec. 10	60.8

C-1193a-O-17	Jan. 22	165.9
171.1	Feb. 20	164.7
	Mar. 19	160.2
	Apr. 28	165.8
	May 19	169.8

C-1195b-O-18	Jan. 7	184.3
180.2	Feb. 4	180.5
	Mar. 25	180.3
	Apr. 29	184.2
	May 6	183.2
	June 10	188.7
	July 15	193.0
	Aug. 12	196.3
	Sep. 16	198.0
	Oct. 14	199.4
	Nov. 11	199.6
	Dec. 9	194.8

C-1197-O-17	Jan. 22	124.9
151.6	Feb. 20	126.2
	Mar. 19	123.6
	Apr. 28	125.6
	May 19	126.8
	Aug. 20	130.4
	Sep. 22	129.9
	Oct. 26	131.3
	Nov. 20	130.7
	Dec. 22	130.9

Measts. from O.C.F.C.D.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-1206b-P-17	Jan. 16	86.7
86.8	Feb. 17	89.5
	Mar. 12	96.8
	Apr. 16	105.2
	May 14	107.0
	June 16	113.4
	July 16	117.0
	Oct. 20	112.8
	Nov. 17	107.3
	Dec. 10	102.3

C-1208b-P-18	Mar. 28	a 132.8
86.8	July 27	a 101.7
	Nov.	a 105.6

C-1211a-P-18	Jan. 20	92.4
105.9	Feb. 19	88.2
	Mar. 17	112.6
	Apr. 28	150.0
	May 19	149.2
	June 18	153.3
	July 17	181.6
	Aug. 20	176.2
	Sep. 21	167.8
	Oct. 27	134.0
	Nov. 19	126.8
	Dec. 15	124.8

1952

C-1211c-P-18	Jan. 22	155.5
157.0	Feb. 21	147.2
	Mar. 18	142.4
	Apr. 15	139.2
	May 16	138.7
	Dec. 16	151.7

1953

Jan. 20	142.1
Feb. 19	138.3

C-1211k-P-18	Jan. 20	64.7
77.2		

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

C-1211k-P-18	Feb. 19	61.0
Cont.	Mar. 17	68.6
	Apr. 28	102.3
	May 19	102.1
	June 18	101.6
	Aug. 20	115.3
	Sep. 21	118.4
	Oct. 27	110.4
	Nov. 19	103.2
	Dec. 15	97.3

C-1216b-P-19	Jan. 20	200.6
220.2	Feb. 19	197.4
	Mar. 17	203.0
	Oct. 27	236.0
	Dec. 15	220.9

C-1217a-Q-19	Jan. 20	260.7
283.4	Feb. 19	259.7
	Mar. 17	261.6
	Apr. 28	267.9
	May 19	269.1
	June 18	273.2
	July 17	284.5
	Aug. 20	281.8
	Sep. 21	284.8
	Oct. 27	278.6
	Nov. 19	276.6
	Dec. 15	272.9

C-1220a-Q-18	Jan. 20	101.8
147.	Feb. 19	100.8
	Mar. 17	101.6
	Apr. 28	103.0
	May 19	103.1
	June 18	103.9
	July 17	105.6
	Aug. 20	106.8
	Oct. 27	108.2
	Dec. 15	107.7

C-1220t-Q-19	Mar.	a 160.1
178.2	July	a 163.2

a Meas. from owner.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1222n-P-18	Mar. 19	a	194.4
99.4	Nov.	a	153.6

C-1224-Q-18	Jan. 20		68.9
96.	Feb. 19		68.0
	Mar. 17		74.2
	Apr. 28		101.7
	May 19		87.0
	June 18		90.8
	July 17		96.5
	Aug. 20		107.8
	Sep. 21		112.1
	Oct. 27		101.6
	Nov. 19		94.5
	Dec. 15		76.4

C-1225-Q-18	Jan. 20		11.7
101.0	Feb. 19		11.4
	Mar. 17		11.5
	Apr. 28		12.1
	May 19		12.3
	June 18		11.9
	July 17		7.9
	Aug. 20		9.1
	Sep. 21		10.0
	Oct. 27		11.2
	Nov. 19		11.6
	Dec. 15		12.0

C-1227c-P-18	Nov.	a	136.0
69.7			

C-1227f-Q-17	Mar.	a	61.5
45.0	Nov.	a	68.9

C-1230-P-17	Jan. 16		30.9
54.2	Feb. 17		32.7
	Mar. 12		33.4
	Apr. 16		32.4
	May 14		37.1
	June 16		34.2
	July 16		36.0

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1230-P-17	Aug. 18		35.7
Cont.	Sep. 17		35.5
	Oct. 20		36.6
	Nov. 17		36.4
	Dec. 10		35.3

C-1231b-P-17	Jan. 16		48.4
39.9	Feb. 17		61.4
	Apr. 16		79.7
	May 14		70.8
	June 16		69.2
	Aug. 18		78.5
	Sep. 17		76.0
	Oct. 20		71.7
	Nov. 17		68.0
	Dec. 10		63.1

C-1243-Q-16	Jan. 16		30.8
40.1	Feb. 17		31.2
	Mar. 12		32.9
	Apr. 16		30.8
	May 14		30.8
	June 16		30.8
	July 16		30.8
	Aug. 18		28.3
	Sep. 17		26.0
	Oct. 20		26.0
	Nov. 17		25.9
	Dec. 10		26.3

C-1249-Q-16	Jan. 16		57.4
40.2	Feb. 17		64.6
	Mar. 12		84.4
	Apr. 16		78.8
	May 14		67.5
	June 16		67.6
	July 16		77.9
	Aug. 18		78.6
	Oct. 20		72.6
	Nov. 17		67.9
	Dec. 10		66.9

a Meas. from owner.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1250-P-15	Jan. 19	44.8
38.9	Feb. 16	59.2
	Apr. 13	55.6
	May 18	52.4
	June 29	53.8
	July 20	59.1
	Aug. 17	55.6
	Sep. 21	55.4
	Oct. 26	53.9
	Nov. 23	52.2
	Dec. 28	51.1

C-1255-P-15	Jan. 15	33.8
27.4	Feb. 17	49.8
	Mar. 12	55.8
	Apr. 14	50.2
	May 12	47.1
	June 11	46.8
	July 14	53.6
	Aug. 17	51.5
	Sep. 17	51.3
	Oct. 15	49.2
	Nov. 12	44.6
	Dec. 10	42.2

C-1257-Q-15	Jan. 15	22.3
14.0	Feb. 17	36.0
	Mar. 12	44.8
	Apr. 14	35.3
	May 12	34.8
	June 11	33.1
	July 14	36.4
	Aug. 17	35.5
	Sep. 17	34.6
	Oct. 15	33.2
	Nov. 12	31.2
	Dec. 10	29.7

C-1263-Q-14	Jan. 7	8.1
4.9	Feb. 4	7.8
	Mar. 4	7.7
	Apr. 8	7.7
	May 6	7.7

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

C-1263-Q-14	June 3	8.2
Cont.	July 8	9.1
	Aug. 5	9.6
	Dec. 9	9.5

C-1263a-Q-14	Jan. 7	10.6
6.8	Feb. 4	11.3
	Mar. 4	18.5
	Apr. 8	16.5
	May 6	15.3
	June 3	14.4
	July 1	14.1
	Aug. 5	15.2
	Sep. 2	15.3
	Oct. 7	14.6
	Nov. 4	13.9
	Dec. 2	12.6

C-1264-Q-14	Jan. 15	7.5
*	Feb. 17	9.9
	Mar. 12	13.9
	Apr. 14	12.1
	May 12	11.4
	June 30	16.5
	July 14	16.9
	Aug. 13	17.8
	Sep. 17	17.6
	Oct. 15	17.0
	Nov. 12	16.5
	Dec. 10	15.6

C-1265-Q-15	Jan. 15	10.2
6.5	Feb. 17	15.5
	Mar. 12	20.2
	Apr. 14	16.8
	May 12	15.5
	June 11	15.0
	July 14	15.5
	Aug. 17	15.8
	Sep. 17	15.2
	Oct. 15	14.8
	Nov. 12	14.3
	Dec. 10	13.0

* R.P. elev. 5.8 through May 12, 1953; then 11.8.
Measts. from O.C.F.C.D.

Records of Ground Water Levels at Wells
in District "D"



Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

D-705-F-20	Jan. 6	a	138.5
1831.5	Feb. 4	a	136.5
	Mar. 4	a	142.9
	Apr. 1	a	142.4
	May 13	a	152.6
	June 10	a	164.7

D-705g-F-20	Jan. 5	b	151.0
1840.	Feb. 2	b	149.3
	Mar. 2	b	155.2
	Apr. 6	b	161.4
	May 4	b	166.0
	Aug. 3	b	208.9
	Sep. 7	b	219.4
	Dec. 7	b	226.9

D-707-F-21	Jan. 6	a	356.9
1840.4	Feb. 4	a	361.8
	Mar. 4	a	362.9
	Apr. 1	a	364.7
	May 13	a	367.9
	June 10	a	369.7

D-711b-F-20	Mar. 25		304.9
1692.0			

1950

D-711d-F-20	Mar. 16	c	330.
1574.4	June 24	c	385.
	Oct. 15	c	388.
	Nov. 1	c	390.
	Dec. 1	c	416.

1951

Sep. 1	c	402.
Nov. 16	c	405.

1952

Jan. 1	c	382.
May 1	c	347.
June 8	c	390.
July 1	c	378.
Aug. 24	c	230.
Sep. 15	c	221.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1952

D-711d-F-20	Nov. 24	c	208.
Cont.			

1953

Jan. 24		202.
Feb. 8		196.
Apr. 16		201.
May 16		216.
June 1		220.
July 24		240.
Sep. 16		253.

D-713b-G-20	Jan. 15	d	363.
1500.0	Feb. 15	d	360.
	Mar. 15	d	359.
	Apr. 15	d	357.
	May 15	d	358.
	June 15	d	351.
	July 15	d	345.
	Aug. 15	d	346.
	Sep. 15	d	342.
	Oct. 15	d	339.
	Nov. 15	d	338.
	Dec. 15	d	336.

D-716-G-21	Jan. 5	b	514.
1212.8	Feb. 2	b	514.
	Mar. 2	b	514.
	Apr. 4	b	513.6
	May 1	b	514.
	June 1	b	515.
	July 6	b	517.
	Aug. 3	b	519.
	Sep. 1	b	520.
	Oct. 1	b	521.
	Nov. 2	b	521.
	Dec. 1	b	521.

D-718a-G-20	Jan. 14		521.
1215.	Feb. 15		519.
	Mar. 15		517.
	Apr. 15		519.
	May 15		518.
	Oct. 15		519.
	Nov. 15		517.
	Dec. 15		518.

a Meas. from San Antonio Water Co.

b Meas. from Upland Water Dept.

c Meas. from L.A.C.F.C.D.

d Meas. from West End Consolidated Water Co.

Measts. from S.B.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

D-721b-G-20	Mar. 25	292.9
1049.4		
D-724-G-21	Mar. 25	473.5
1173.0		
D-727-H-21	Jan. 6	a 393.4
1093	Feb. 4	a 394.4
	Mar. 4	a 396.7
	Apr. 1	a 396.2
	May 13	a 417.1
D-728-H-20	Mar. 25	301.6
1032.		
D-729-H-20	Mar. 25	301.6
985.		
D-740-H-20	Mar. 2	176.4
844.	May 4	181.6
	June 1	190.8
D-743h-I-19	Mar. 23	107.0
771.	Dec. 21	113.2
D-743z-I-19	Jan. 8	85.5
746.0	Feb. 2	92.8
	Mar. 2	83.7
	Apr. 3	95.6
	May 4	90.3
	June 1	103.9
	July 2	103.8
	Aug. 4	116.6
	Sep. 8	109.5
	Sep. 30	110.8
	Nov. 4	101.1
	Dec. 2	94.8
D-750a-I-21	Mar. 26	85.5
743.5	Dec. 17	90.4
D-751-I-20	Dec. 17	92.0
765.		

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

D-752-I-20	Mar. 27	76.4
713.4	Dec. 17	77.6
D-753a-I-20	Mar. 27	97.4
744.4	Dec. 21	100.8
D-753b-I-20	Dec. 21	59.8
702.1		
D-754a-I-19	Mar. 27	61.5
727.8	Dec. 21	63.8
D-757a-I-19	Jan. 8	39.2
659.4	Feb. 2	50.6
D-761a-I-21	Mar. 26	58.0
675.8		
D-762a-I-21	Mar. 26	65.7
692.6	Dec. 17	72.8
D-766-J-20	Dec. 14	34.2
605.8		
D-768-J-19	Mar. 27	33.4
704.8	Dec. 23	36.0
D-771a-J-20	Mar. 12	b 28.4
600.5		
D-771e-J-20	Mar. 25	28.7
583.8	Dec. 14	30.8
D-772-J-20	Mar. 12	b 4.1
571.3	Oct. 6	b 12.8
D-773-J-21	Mar. 26	12.3
587.0	Dec. 15	16.5
D-776c-J-20	Jan. 8	6.6
555.5	Feb. 12	6.8
	Mar. 31	9.1
	Apr. 17	9.4

a Meas. from San Antonio Water Co.

b Meas. from O.C.F.C.D.

Measts. from S.B.C.F.C.D. except as noted.

Well Number	Dist.R.P.
and	to water
R.P. Elev.	surface,
Date	Feet

1953

D-776c-J-20	May 15	9.9
Cont.	June 22	15.3
	Sep. 29	20.4
	Dec. 4	14.7

D-776e-J-21	Jan. 8	4.9
573.6	Feb. 2	3.6
	Mar. 2	6.3
	Apr. 3	8.4

D-777a-J-20	Dec. 14	6.8
538.0		

D-780-K-20	Mar. 25	16.5
523.7	Aug. 17	21.8
	Dec. 3	19.7

D-780b-K-20	Mar. 25	19.3
535.9	Aug. 17	23.0
	Dec. 3	17.3

D-782-K-21	Jan. 8	35.4
552.8	Feb. 12	35.4
	Mar. 13	32.7
	Apr. 17	36.2
	May 1	34.0
	June 22	33.0
	July 15	34.1
	Aug. 18	35.2
	Sep. 15	35.9
	Oct. 23	36.4
	Nov. 20	36.8
	Dec. 18	36.2

D-783-K-21	Jan. 8	34.9
539.8	Feb. 12	35.6
	Mar. 13	36.3
	Apr. 17	36.0
	May 15	37.1
	June 22	36.2
	July 9	36.5
	Dec. 18	36.8

Well Number	Dist.R.P.
and	to water
R.P. Elev.	surface,
Date	Feet

1953

D-784d-K-21	Jan. 13	a	1.4
501.7	Feb. 16	a	1.2
	Mar. 13	a	1.0
	Apr. 13	a	7.6
	May 11	a	9.2
	June 16	a	8.6
	July 14	a	16.2
	Aug. 18	a	15.3
	Oct. 1	a	13.5
	Nov. 5	a	5.8
	Dec. 8	a	4.4

D-788-K-21	Jan. 8	5.7
479.3	Feb. 12	5.1
	Mar. 13	5.1
	Apr. 17	5.9
	May 1	5.4
	June 22	5.8
	July 9	6.4
	Dec. 18	8.9

D-788a-K-21	Jan. 13	a	7.8
489.5	Feb. 16	a	7.7
	Mar. 17	a	7.6
	Apr. 13	a	7.8
	May 11	a	8.1
	June 16	a	8.5
	July 14	a	9.2
	Aug. 18	a	9.4
	Sep. 30	a	9.8
	Nov. 5	a	9.6
	Dec. 8	a	9.0

D-789-L-21	Jan. 8	8.8
477.6	Feb. 12	9.2
	Mar. 13	8.2
	Apr. 17	8.5
	May 1	8.9
	June 22	9.5
	July 9	11.2
	Dec. 18	10.6

a Meas. from O.C.F.C.D.

Measts. from S.B.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

D-801-K-21	Jan. 30	16.4
563.5	Feb. 13	16.4
	May 1	21.5
D-802-K-21	Feb. 26	15.8
545.6	May 4	13.6
D-811a-K-22	Dec. 14	63.6
592.7		
D-812-K-22	Jan. 30	30.2
562.8	Feb. 13	31.2
	May 1	45.0
	Nov. 5	35.2
D-813-K-22	Jan. 5	8.7
547.4	Feb. 13	8.7
	Mar. 13	10.0
	Apr. 17	10.1
	May 1	8.7
	June 22	10.4
	July 9	12.1
	Sep. 23	12.0
	Dec. 30	9.3
D-902a-I-21	Mar. 20	101.7
751.1	Dec. 15	110.2
D-905-J-21	Mar. 12 a	29.0
632.2		
D-905a-J-21	Mar. 12	56.7
622.6	Oct. 6	52.4
	Dec. 15	30.9
D-906b-J-21	Jan. 30	8.4
594.1	Feb. 13	18.2
	Mar. 13	16.4
	Apr. 17	33.8
	May 1	25.0
	Sep. 23	41.3
	Dec. 30	23.9

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

D-906d-J-21	Jan. 5	13.9
602.8	Feb. 13	19.9
	Mar. 13	21.0
	Apr. 17	25.6
	June 22	27.0
	Sep. 9	39.1
	Dec. 30	23.5
D-907a-J-22	Dec. 14	21.4
606.9		
D-907b-J-22	Mar. 22 b	12.0
578.8		
D-908a-J-22	Mar. 11 a	32.3
626.0	Oct. 6 a	41.4
D-909-J-22	Mar. 26	47.0
658.6		
D-910-I-22	Dec. 17	92.7
725.5		
D-913-I-22	Mar. 19	166.8
828.2		
D-913b-I-22	Dec. 14	154.8
801.8		
D-914-I-22	Mar. 19	125.9
780.0	Dec. 14	131.9
D-915-I-22	Jan. 8	73.6
717.9	Feb. 2	73.0
	Mar. 2	81.2
	Apr. 3	81.6
	May 4	79.6
	June 1	80.3
	July 2	82.4
	Oct. 6	86.0
	Nov. 4	90.6

a Meas. from O.C.F.C.D.

b Meas. from R.C.F.C.&W.C.D.

Measts. from S.B.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

D-918d-J-22	Jan. 5	30.6
599.8	May 1	31.7
	July 24	37.3
D-919c-J-22	Mar. 29	45.5
627.9	Dec. 14	44.3
D-921a-J-22	Dec. 9	44.4
663.4		
D-922-I-22	Dec. 11	95.2
726.6		
D-922c-I-22	Mar. 26	76.0
712.6	Dec. 10	75.4
D-928-I-23	Mar. 24 a	65.0
702.0	Oct. 6	71.8
D-928a-J-23	Mar. 25	56.8
681.3	Aug. 17	60.0
	Dec. 8	53.8
D-929-J-23	Jan. 8	53.0
646.4	Feb. 2	49.7
	Mar. 2	49.4
	Apr. 3	52.1
	May 4	51.7
	June 1	51.2
	July 2	53.3
	Aug. 4	56.7
	Sep. 30	57.4
	Nov. 4	56.4
	Dec. 2	54.0
D-929a-J-23	Mar. 11 b	48.4
652.9	Oct. 6 b	56.0
	Dec. 8	59.4
D-934-I-23	Mar. 25	76.1
716.0	Aug. 17	79.3
	Dec. 9	81.4

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

D-935-I-23	Mar. 19	122.1
785.3		
D-936a-I-23	Mar. 19	149.0
846.0	Dec. 8	151.0
D-940b-J-23	Jan. 5	70.7
701.3	Feb. 13	72.8
	Mar. 13	70.3
	Apr. 17	70.6
	May 1	79.9
	June 22	71.6
	July 9	72.2
	Sep. 23	73.2
	Oct. 7	73.5
	Nov. 18	73.6
	Dec. 30	72.9
D-975c-I-25	Jan. 16	48.5
817.6	Feb. 20	48.5
	Dec. 8	51.6
D-975d-I-25	Jan. 16 c	14.1
770.7	Mar. 13 c	13.4
	May 15 c	13.3
	July 17 c	14.7
	Sep. 19 c	14.4
	Nov. 13 c	14.7
D-983c-I-26	Jan. 16 c	58.8
851.0	Feb. 20 c	61.0
	Mar. 13 c	58.9
	May 15 c	59.2
	July 17 c	59.7
	Aug. 14 c	60.8
	Sep. 19 c	60.1
	Nov. 13 c	60.7
	Dec. 11 c	60.3
D-984d-I-26	Jan. 8	115.2
946.4	Feb. 2	113.3
	Mar. 2	112.0
	Apr. 3	110.3

a Meas. from R.C.F.C.&W.C.D.

b Meas. from O.C.F.C.D.

c Meas. from Riverside Cement Co.

Measts. from S.B.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

D-985c-I-26	Jan. 16	a	77.6
896.2	Mar. 13	a	77.8
	Apr. 17	a	83.2
	Aug. 14	a	84.3
	Oct. 15	a	85.2
	Dec. 11	a	87.4

D-986-I-26	Jan. 16		63.1
876.4	Apr. 17		64.7
	May 15		65.5
	July 17		67.9
	Aug. 14		69.1
	Sep. 19		70.3
	Oct. 15		70.7
	Nov. 13		70.2

D-1001b-G-21	Jan. 1	b	219.0
1420.3	Feb. 1	b	215.0
	May 4	b	220.0

D-1001i-G-21	Jan. 1	b	195.0
1396.1	Feb. 1	b	185.0
	Mar. 1	b	187.0
	Apr. 1	b	190.0
	May 4	b	185.0

D-1002-G-21	Mar. 25		102.1
1269.0	Dec. 28		111.8

D-1002b-G-21	Mar. 25		423.8
1164.3	Dec. 28		433.0

D-1005a-H-21	Mar. 23		211.7
906.2			

D-1012b-G-22	Mar. 26		147.9
1322.0	Dec. 29		161.1

D-1014-G-22	Mar. 26		433.6
1203.6			

a Meas. from Riverside Cement Co.

b Meas. from Cucamonga Water Co.

Measts. from S.B.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

D-1022-G-22	Mar. 26		343.6
1077.8			

D-1024-G-22	Mar. 26		467.
1331.3	Dec. 28		423.4

D-1029-H-23	Mar. 20		239.5
974.6			

D-1030-H-23	Jan. 8		163.4
862.6	Feb. 2		157.0
	Mar. 2		168.8
	Apr. 3		181.2
	May 4		181.4
	June 1		183.1
	July 2		185.2
	Aug. 4		186.7
	Sep. 8		184.0
	Nov. 4		184.4
	Dec. 2		184.6

D-1031-H-23	Mar. 18		161.4
902.0	Dec. 7		164.1

D-1033-H-23	Jan. 8		268.0
1046.8	Feb. 2		286.2
	Mar. 2		286.2
	Apr. 3		296.6
	May 4		292.7
	June 1		298.7
	July 2		308.0
	Aug. 4		294.8
	Sep. 8		292.2
	Nov. 4		293.9
	Dec. 2		288.6

D-1043b-H-24	Mar. 18		167.5
937.5	Dec. 7		167.2

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

D-1044-H-24	Jan. 8	a	196.0
959.0	Feb. 2	a	194.6
	Mar. 2	a	196.5
	Apr. 3	a	194.6
	May 4	a	194.0
	June 1	a	195.5
	July 2	a	196.7
	Aug. 4	a	195.5
	Sep. 8	a	195.7
	Nov. 4	a	195.8
	Dec. 2	a	196.2

D-1050-G-24	Feb. 13		375.3
1165.8	Mar. 10		375.3
	June 15		376.9

D-1050a-G-24	Feb. 13		445.7
1246.5	Mar. 10		445.7
	June 15		452.7
	Dec. 10		446.0

D-1052-H-24	Feb. 13		292.8
1079.8	Mar. 10		293.0
	June 15		293.5
	Sep. 11		294.9
	Dec. 10		299.4

D-1053-H-24	Feb. 13		243.3
1024.9	Mar. 10		243.3
	June 15		243.6
	Sep. 11		244.7
	Dec. 10		245.4

D-1054c-H-24	Dec. 4	a	170.8
964.4			

D-1055-H-24	Feb. 16		193.4
979.9	Sep. 11		195.5
	Dec. 10		195.4

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

D-1059-G-24	Feb. 13		412.3
1210.5	Mar. 10		412.3
	June 15		413.6
	Sep. 11		416.7
	Dec. 10		416.4

D-1061-G-25	Jan. 12		573.5
1397.2	Feb. 11		573.3
	Mar. 10		572.6

D-1062-G-25	Feb. 13		436.6
1248.8	Mar. 10		437.1
	June 15		437.1
	Sep. 11		437.6
	Dec. 10		438.6

D-1062a-G-25	Feb. 13		432.3
1236.4	Mar. 10		432.3
	June 15		433.5
	Sep. 11		434.2
	Dec. 10		435.3

D-1064-H-25	Feb. 13		304.3
1107.5	Mar. 10		304.3
	June 15		304.8
	Sep. 11		305.2
	Dec. 10		305.0

D-1064a-H-25	Feb. 13		351.7
1156.9	Mar. 10		351.7
	June 15		352.4
	Sep. 11		352.8
	Dec. 10		531.7

D-1064b-H-25	Feb. 13		342.1
1142.5	Mar. 10		342.1
	June 15		342.6
	Sep. 11		343.3
	Dec. 10		343.3

a Meas. from S.B.C.F.C.D.

Measts. from Fontana Union Water Co. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

D-1065-H-25	Jan.	8	a	251.8
1050.0	Feb.	2	a	251.7
	Mar.	2	a	251.7
	Apr.	3	a	251.8
	May	4	a	256.6
	June	1	a	255.7
	July	2	a	261.7
	Aug.	4	a	252.7
	Sep.	9	a	252.4
	Nov.	4	a	252.8
	Dec.	2	a	252.7

D-1068-H-25	Jan.	1	b	247.5
1082.4	Feb.	1	b	245.2
	Apr.	10	b	255.1
	May	8	b	255.3
	June	8	b	257.2
	July	10	b	257.3
	Sep.	1	b	257.3
	Oct.	1	b	256.1
	Nov.	1	b	256.1
	Dec.	1	b	256.1

D-10720G-25	Jan.	12		294.1
1409.9	Feb.	11		293.1
	Mar.	12		292.0
	Apr.	13		289.4
	May	11		289.6
	Sep.	10		332.8
	Dec.	8		309.7

D-1072a-G-25	Jan.	12		293.3
1409.6	Feb.	11		291.0
	Mar.	12		291.0
	Apr.	13		289.3
	May	11		288.6
	June	11		301.4
	July	13		316.8
	Aug.	10		325.1
	Oct.	12		334.8
	Nov.	12		324.9
	Dec.	8		312.9

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

D-1075-G-25	Feb.	13		328.7
1180.8	Mar.	10		328.7
	June	15		329.6
	Dec.	10		330.8

D-1075a-G-25	Feb.	13		383.1
1228.7	Mar.	10		383.1
	June	15		383.1
	Sep.	11		385.4
	Dec.	10		385.5

D-1081-H-26	Feb.	2	a	254.5
1105.7	Mar.	2	a	254.2
	Apr.	3	a	254.2
	May	4	a	254.4
	June	1	a	254.7
	July	2	a	254.7

D-1084-G-26	Mar.	30	c	315.0
1353.2				

D-1085a-G-26	Jan.	5	d	316.5
1346.6	Feb.	2	d	316.5
	Mar.	2	d	315.5
	Apr.	6	d	316.0
	May	4	d	316.5

D-1088-H-26	Jan.		b	185.3
1037.6	Feb.		b	187.5
	Apr.	10	b	181.3
	May	8	b	195.7
	June	8	b	186.2
	July	10	b	187.5
	Nov.		b	188.9
	Dec.		b	188.4

D-1090-H-26	Dec.	4	a	105.4
967.6				

D-1090b-H-26	Mar.	30	a	51.2
893.7				

a Meas. from S.B.C.F.C.D.

b Meas. from Citizens Land and Water Co.

c Meas. from S.B.C.F.C.D. by Lytle Creek Water and Improvement Co.

d Meas. from Lytle Creek Water and Improvement Co.

Measts. from Fontana Union Water Co. except as noted.

	:		:	Dist.R.P.
Well Number :	:	:	:	to water
and :	:	:	:	surface,
R.P. Elev. :	Date :	:	:	Feet

1953

D-1091-H-26 Dec. 8 a 30.7
869.2

D-1092c-H-26 Mar. 20 a 17.1
870.1 Dec. 8 a 23.6

D-1092d-H-26 Mar. 17 a 158.5
999.7 Dec. 1 a 153.0

D-1095-G-26 Jan. 1 b 210.7
1177.2 Feb. 1 b 209.1
 Mar. 7 b 208.3
 Nov. 1 b 221.1
 Dec. 1 b 221.3

D-1105-F-21 Jan. 6 c 450.1
1684.4 Feb. 4 c 439.9
 Mar. 4 c 437.1
 Apr. 1 c 433.4
 Dec. 23 a 491.8

D-1105e-F-21 Mar. 27 a 408.1
1635.

D-1107L-F-22 Mar. 27 a 272.6
1521.1

D-1108-F-22 Mar. 27 a 306.4
1696.8

D-1116-F-22 Mar. 27 a 362.0
1762.5

D-1116a-F-22 Mar. 27 a 317.9
1881.0

D-1116b-F-22 Mar. 27 a 372.3
1945.0

	:		:	Dist.R.P.
Well Number :	:	:	:	to water
and :	:	:	:	surface,
R.P. Elev. :	Date :	:	:	Feet

1953

D-1161-E-25 Jan. 12 67.5
2244.1 Feb. 10 70.2

Mar. 12 74.2
June 11 75.4
Aug. 10 84.0
Oct. 13 96.5
Nov. 12 97.0
Dec. 8 92.9

D-1162a-E-25 Jan. 12 97.5
2068.9 Feb. 10 92.8
 Mar. 12 95.2
 Apr. 13 98.6
 May 11 103.0
 June 11 109.0
 July 14 110.2
 Sep. 10 119.4
 Oct. 13 124.0
 Nov. 12 125.2
 Dec. 8 124.0

D-1170b-E-25 Jan. 12 48.4
1852.9 Feb. 11 49.6
 Mar. 12 48.8
 Apr. 13 48.4
 May 11 48.7
 June 11 49.0
 July 14 50.5
 Aug. 10 51.2
 Sep. 10 52.5
 Oct. 13 53.7
 Nov. 12 55.7
 Dec. 8 57.0

D-1181c-F-26 Apr. 13 108.6
1572.2

a Meas. from S.B.C.F.C.D.

b Meas. from Citizens Land and Water Co.

c Meas. from San Antonio Water Co.

Measts. from Fontana Union Water Co. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

D-1182b-E-26	Jan. 12	356.8
1598.9	Feb. 10	353.0
	Mar. 12	348.4
	Apr. 13	344.8
	May 11	341.9
	June 11	341.8
	July 13	342.9
	Aug. 10	342.3
	Sep. 10	338.8
	Oct. 12	339.5
	Nov. 12	339.8
	Dec. 8	340.1

D-1182c-E-26	Jan. 12	317.4
1549.8	Feb. 10	312.8
	Mar. 12	308.1
	Apr. 10	304.2
	May 11	302.4
	Aug. 10	304.2
	Oct. 12	307.7
	Nov. 12	307.2
	Dec. 8	307.2

D-1184-E-26	Jan. 23	a	120.0
1879.0	May 20	a	143.0
	July 9	a	147.2
	Aug. 20	a	137.0
	Oct. 1	a	138.0
	Nov. 6	a	139.0
	Dec. 17	a	142.0

D-1188a-F-26	Jan. 12	230.9
1455.9	Feb. 10	224.5
	Mar. 12	221.2
	Apr. 10	237.4
	May 11	212.2

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

D-1188a-F-26	June 11	238.1
Cont.	Dec. 8	242.2

D-1188h-F-26	May 20	a	83.0
1496.4	Aug. 20	a	97.3
	Oct. 2	a	93.0
	Nov. 10	a	88.5
	Dec. 17	a	86.0

D-1189-F-26	Jan. 5	b	184.0
1363.	Feb. 2	b	174.5
	Mar. 2	b	165.0
	Apr. 6	b	155.
	May 4	b	150.
	June 1	b	160.
	July 6	b	151.
	Aug. 3	b	165.
	Sep. 7	b	159.
	Nov. 2	b	178.
	Dec. 7	b	169.

D-1192c-F-26	Jan.	c	245.5
1367.5	Mar.	c	240.9
	Apr. 10	c	313.9
	May 8	c	280.4
	July 10	c	252.2
	Aug.	c	219.5
	Sep.	c	218.7
	Oct.	c	215.8
	Nov.	c	209.1
	Dec.	c	210.3

D-1253-D-24	Jan. 12	16.3
2760.	Feb. 10	16.9
	Mar. 12	16.9
	Apr. 13	17.2
	May 11	17.3

a Meas. from S.B.W.D.

b Meas. from Lytle Creek Water and Improvement Co.

c Meas. from Citizens Land and Water Co.

Measts. from Fontana Union Water Co. except as noted.

Records of Ground Water Levels in Wells
in District "E"



Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

E-2-E-27	Jan. 9	193.9
1622.0	Feb. 9	195.3
	Mar. 3	196.6
	Apr. 2	227.2

E-2a-E-27	Jan. 23	208.1
1531.2	Mar. 3	216.8
	Apr. 2	216.8
	May 15	225.3
	Aug. 20	226.0
	Oct. 1	227.0
	Nov. 10	228.1
	Dec. 15	225.2

E-4a-F-27	Apr. 3	225.0
1303.4	Aug. 20	229.6

E-5e-F-27	Jan. 9	183.0
1258.4	Feb. 27	183.2
	Mar. 19	182.4
	May 8	184.5
	June 9	198.3
	Dec. 18	199.4

E-6-F-27	Mar. 2	270.0
1248.2	Apr. 2	280.0
	July 8	297.0
	Aug. 21	297.0
	Oct. 5	294.0
	Nov. 9	294.0
	Dec. 15	292.0

E-7-G-27	Jan.	a 105.2
1160.5	May 8	a 106.3
	Dec.	a 123.1

E-8a-G-27	Jan. 26	178.1
1203.5	Apr. 3	177.8
	May 21	178.3
	June 9	177.3
	July 9	177.8
	Aug. 21	178.1

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

E-8a-G-27	Oct. 5	178.6
Cont.	Nov. 11	178.6
	Dec. 22	179.0

E-10-E-27	Jan. 22	186.2
1412.0	Feb. 27	187.1
	Mar. 4	188.5
	Apr. 2	190.9
	May 15	191.0
	June 3	192.3
	Aug. 19	194.5
	Oct. 1	192.8
	Nov. 10	195.1
	Dec. 15	196.3

E-22-G-27	Oct. 6	b
1082.9		

E-23-G-27	Mar. 13	51.0
1069.9	Aug. 24	51.2
	Oct. 6	54.2
	Nov. 12	53.8

E-27-F-28	Jan. 26	c
1110.1		

E-29-G-28	Jan. 8	+25.4
1029.7	Apr. 27	+13.9
	May 26	+9.2
	Aug. 10	10.6
	Sep. 3	8.8
	Nov. 6	1.0
	Dec. 21	+5.8

E-34b-F-28	Jan. 22	177.8
1319.2	Apr. 8	178.8
	May 19	181.0
	July 8	181.3
	Aug. 19	182.4
	Sep. 30	184.3
	Nov. 9	185.1
	Dec. 17	186.7

a Meas. from Citizens Land and Water Co.

b Dry at 35 feet.

c Dry at 48 feet.

Measts. from S.B.W.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

E-36-F-28	Jan. 9	97.0
1161.8	Mar. 5	98.4
	Apr. 10	107.4
	May 20	103.1
	July 31	110.4
	Aug. 26	112.0
	Sep. 2	113.1
	Oct. 2	113.6
	Dec. 15	109.4
E-37-F-28	Jan. 23	64.6
1130.3	Apr. 9	65.9
	May 21	76.2
	Nov. 13	92.8
E-42-G-28	Jan. 20	+6.9
1059.3	Mar. 5	+6.9
	Apr. 6	6.5
	May 18	19.0
	Dec. 15	16.9
E-46-G-28	Jan. 26	23.0
1085.5	Apr. 9	24.3
	May 21 a	26.6
	July 9	31.4
	Aug. 21	30.1
	Oct. 5	31.8
	Nov. 10	31.5
	Dec. 18	31.5
E-49-F-29	Jan. 22	179.2
1269.8	Apr. 7	181.7
	July 8	191.8
	Aug. 19	196.0
	Sep. 30	200.7
	Nov. 9	199.2
	Dec. 16	198.2
E-49d-F-29	Jan. 22	192.8
1282.5	May 19 a	196.5
	Aug. 18	206.1
	Sep. 30	206.3
	Nov. 9	207.7
	Dec. 16	206.4

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

E-54-G-29	Jan. 21	304.2
1413.0	Apr. 7	306.1
E-55b-G-29	Aug. 18	176.4
1284.7		
E-57-G-29	Apr. 16	92.5
1222.2	May 18	98.8
	July 8	121.8
	Aug. 18	125.9
	Sep. 29	129.4
	Nov. 9	133.5
	Dec. 16	137.7
E-59-G-29	Nov. 9	148.0
1239.1	Dec. 16	149.0
E-59a-G-30	Jan. 31	148.0
1266.5	Apr. 7	150.0
	May 18	150.1
	July 8	155.2
	Aug. 18	158.5
	Sep. 29	161.6
	Nov. 9	163.0
	Dec. 16	165.0
E-61d-G-30	Mar. 18 a	166.6
1397.4	Apr. 17 a	174.0
E-62a-G-30	Jan. 21	291.7
1541.6	Apr. 7	292.9
	June 1	281.6
E-67h-I-26	Jan. 16 b	17.7
862.6	Feb. 20 b	18.0
	Mar. 13 b	18.3
	Apr. 17 b	18.9
	May 15 b	19.6
	June 12 b	21.5
	Aug. 14 bc	
E-70-G-27	Jan. 29 d	214.0
1134.1	Feb. 27 d	215.0

a Meas. from S.B.V.W.C.D.

b Meas. from Riverside Cement Co.

c Dry at 25 feet.

d Meas. from owner.

Measts. from S.B.W.D. except as noted.

Well Number : : Dist. R.P.
and : : to water
R.P. Elev. : Date : surface,
Feet

1953

E-70-G-27 Mar. 27 214.0
Cont. Apr. 30 214.0
May 28 216.0
June 29 216.7
July 29 216.0
Aug. 28 217.0
Sep. 28 219.0
Oct. 29 221.0
Nov. 27 221.0
Dec. 29 222.0

E-74-I-27 Feb. 20 a 53.4
883.4

E-75-H-27 Jan. 16 b 44.8
921.2 Feb. 20 b 30.1
Mar. 13 b 29.2
Apr. 17 b 41.0
May 15 b 42.4
June 12 b 45.0
Sep. 19 b 56.9
Oct. 15 b 58.4
Nov. 13 b 58.7
Dec. 11 b 57.2

E-77i-I-27 Jan. 27 c 95.0
946.2 Feb. 28 c 93.8
Apr. 5 c 93.3
May 2 c 92.2
May 30 c 95.5

E-78-G-27 Jan. 29 67.0
1094.5 Feb. 27 69.0
Mar. 27 92.0
Apr. 30 72.0
May 28 87.0
June 29 122.0
July 29 126.0
Aug. 28 128.0
Sep. 28 110.0
Oct. 29 110.0
Nov. 27 94.0
Dec. 29 107.0

Well Number : : Dist. R.P.
and : : to water
R.P. Elev. : Date : surface,
Feet

1953

E-83-I-27 Jan. 27 c 128.3
983.5 May 2 c 128.2
July 4 c 132.7
Aug. 1 c 135.5
Sep. 2 c 138.8
Oct. 4 c 140.5
Nov. 30 c 141.1

E-85-G-27 Jan. 26 d 36.3
1054.9 Apr. 9 d 36.4
May 22 d 40.0
July 9 d 49.0
Aug. 24 d 52.2
Oct. 6 d 50.8
Nov. 12 d 45.2
Dec. 22 d 42.1

E-90b-H-27 Jan. 16 b 15.0
959.6 Mar. 13 b 21.1
May 15 b 15.0
June 3 e 16.7

E-93-G-28 Jan. 26 d +57.0
1008.7 Apr. 3 d +11.6
May 22 d +4.6
Nov. 12 d -2.7
Dec. 22 d +5.1

E-95-H-27 Oct. 23 e 102.6
1014.4

E-95a-H-27 Jan. 16 f 56.4
969.7 Mar. 13 f 52.8
May 15 f 59.7
Sep. 19 f 66.5
Nov. 13 f 69.5

E-97-G-28 Jan. 26 d 21.2
1061.3 May 22 d 55.4
July 9 d 56.1
Aug. 25 d 66.0
Oct. 6 d 68.0
Nov. 12 d 65.3
Dec. 22 d 62.0

a Meas. from R.C.F.C. & W.C.D.

b Meas. from W. P. Rowe.

c Meas. from A. A. Webb.

d Meas. from S.B.W.D.

e Meas. from S.B.V.W.C.D.

f Meas. from Riverside Cement Co.

Measts from owner except as noted.

:	:	: Dist.R.P.
Well Number :	:	: to water
and :	:	: surface,
R.P. Elev. :	Date :	Feet

1953

E-104-H-28	Oct. 23		265.5
1310.5			
E-106c-H-29	Oct. 24		82.1
1163.9			
E-106f-H-29	Oct. 24		93.4
1140.9			
E-107b-H-29	Feb. 3		104.0
1206.9	Mar. 3		107.8
	May 4		109.3
	Oct. 21		138.1
E-107d-H-29	Oct. 21		93.4
1217.5			
E-109-G-29	Jan. 3	a	64.2
1150.2	Jan. 31	a	61.8
	Feb. 14	a	61.6
	Mar. 28	a	62.7
	Apr. 11	a	63.6
	May 2	a	65.2
	June 20	a	68.8
	Aug. 8		74.4
	Sep. 12		77.1
	Oct. 17		80.2
	Nov. 7		81.0
	Dec. 26		82.0
E-110-H-29	Oct. 26		84.6
1207.2			
E-113-G-29	Feb. 28		153.3
1293.1	Oct. 26		145.2
	Dec. 31		146.3
E-114-H-29	Jan. 20		163.4
1322.3	Feb. 28		162.3
	May 4		163.6

:	:	: Dist.R.P.
Well Number :	:	: to water
and :	:	: surface,
R.P. Elev. :	Date :	Feet

1953

E-114-H-29	Sep. 22		183.5
Cont.	Oct. 27		185.6
	Dec. 31		181.7
E-117-I-30	Oct. 19		92.3
1438.6			
E-122-I-30	Oct. 19		95.1
1513.3			
E-123c-H-30	Jan. 24		258.4
1521.0	Feb. 19		259.5
	Mar. 24		259.8
	May 25		264.3
E-124-H-30	Feb. 28		146.2
1609.5	Sep. 10		163.5
	Oct. 20		167.3
	Dec. 29		169.4
E-127-G-31	Sep. 10		94.3
1907.0	Dec. 29		91.8
E-127d-H-31	Sep. 10		82.3
1836.2	Oct. 21		93.7
	Dec. 29		87.1
E-128-H-31	Dec. 30		145.1
1710.5			
E-131e-H-32	Feb. 28		30.6
2198.9	Dec. 29		53.8
E-132-I-32	Apr. 16	b	135.7
2131.8	Nov. 28	b	137.9
E-133-I-31	Apr. 16	b	143.3
2098.8			
E-136-I-32	Apr. 20	b	139.0
2292.6			

a Meas. from Gage Canal Co.

b Meas. from J.N. Hicks.

Meas. from S.B.V.W.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

E-136c-I-32 Apr. 10 a 199.8
2360.2

E-136i-I-32 Apr. 20 a 223.3
2392.6

E-137-H-32 Apr. 10 a 249.1
2653.5

E-138f-I-33 Apr. 20 a 397.3
2623.2

E-139a-H-33 Apr. 10 a 286.7
2816.9

E-140-H-33 Apr. 10 a 66.4
3107.7

E-140c-H-33 Apr. 10 a 32.2
3338.3

E-141-I-33 Apr. 10 a 65.2
2814.1

E-147b-K-21 Mar. 19 3.0
493.8 Sep. 30 4.1

E-149d-K-22 Mar. 6 b 46.8
570.9 Oct. 7 b 47.9

E-149i-K-22 Mar. 10 55.6
588.0 Oct. 8 56.3

E-150-K-22 Mar. 9 105.5
602.7 Oct. 8 110.4

E-150b-K-22 Mar. 9 49.6
567.6 Oct. 8 53.7

E-153-K-22 Mar. 10 34.7
590.3

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	rface, Feet

1953

E-159-K-23 Mar. 9 b 54.8
627.3

E-169c-K-24 Jan. 12 c 25.7
309.1 Feb. 6 c 24.8
Mar. 6 c 25.6
Apr. 10 c 28.2
May 1 c 26.8

E-176-K-24 Mar. 10 48.2
764.2 Oct. 9 53.0

E-225b-J-31 Apr. 13 b 36.0
1878.3

E-229-I-32 Apr. 14 b 86.6
2287.1

E-233f-J-32 Apr. 20 d 62.1
2299.1

E-242-K-33 Apr. 14 b 107.3
2432.7

E-249-J-34 Apr. 14 b 126.7
2942.9

E-265-L-21 Jan. 7 9.6
491.8 Feb. 4 10.0
Mar. 4 9.7
Apr. 1 9.9
May 6 10.2
June 3 10.4
July 1 10.8
Aug. 5 10.7
Sep. 2 10.8
Oct. 7 11.1
Nov. 4 10.9
Dec. 2 10.8

E-267-L-21 Mar. 6 b 7.2
494.0

a Meas. from J. N. Hicks.

b Meas. from R.C.F.C.&W.C.D.

c Meas. from R.W.D.

d Meas. from S.B.V.W.C.D.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist. R.P.
Well Number	:	:	to water
and	:	:	surface,
R.P. Elev.	:	Date	Feet

1953

E-268b-L-21	Jan. 13	14.7
512.4	Feb. 16	14.4
	Mar. 18	14.0
	Apr. 13	14.4
	May 11	14.5
	June 16	15.2
	July 14	15.9
	Aug. 13	16.4
	Sep. 30	16.8
	Nov. 5	16.8
	Dec. 8	16.7

E-269a-L-22	Mar. 19	19.9
527.8		

E-270-L-21	Mar. 5	a	101.0
611.1			

E-272-L-22	Mar. 9	32.9
* 537.5	Oct. 8	32.2

E-273a-L-22	Mar. 9	145.9
662.2		

* New elev.; R.P. changed.

a Meas. from R.C.F.C.&W.C.D.

b Meas. from owner.

Measts. from O.C.F.C.D. except as noted.

	:	:	Dist. R.P.
Well Number	:	:	to water
and	:	:	surface,
R.P. Elev.	:	Date	Feet

1953

E-274c-L-22	Mar. 9	76.7
592.2	Oct. 7	81.0

E-276-L-22	Jan. 17	b	144.1
677.8	Mar. 7	b	143.0
	Apr. 14	b	144.6
	May 12	b	145.0
	July 9	b	146.0
	Aug. 12	b	150.5
	Oct. 14	b	152.8

E-277b-M-22	Mar. 5	a	118.6
969.9			

E-282c-L-22	Jan. 17	b	90.6
631.5	Mar. 7	b	90.0
	Apr. 14	b	92.0
	May 12	b	94.0
	June 11	b	96.0

E-291-L-23	Mar. 5	a	133.2
644.8			

Records of Ground Water Levels at Wells
in San Jacinto Valley



	:		:	Dist.R.P.
Well Number :		:	to water	
and :		:	surface,	
R.P. Elev. :	Date :		Feet	

1953

3S4W36A	Jan. 23	146.7
1495.0	Dec. 21	143.7
3S4W36B	Jan. 26	130.6
1507.7		
3S3W1A	Jan. 30	294.9
1754.5		
3S3W2A	Jan. 30	247.7
1810.6		
3S3W6A	Jan. 23	174.7
1620.		
3S3W6B	Jan. 23	189.4
1650.5	Oct. 17	223.1
	Dec. 21	212.5
3S3W7B	Jan. 23	131.9
1591.2		
3S3W8A	Jan. 23	152.1
1613.4	Dec. 21	160.3
3S3W12A	Jan. 30	139.2
1601.0	June 12	149.3
	July 9	151.4
	Aug. 10	151.8
	Dec. 23	149.0
3S3W13A	July 9	146.2
1596.4	Aug. 10	146.8
	Sep. 16	147.0
	Oct. 21	143.5
	Nov. 10	146.1
	Dec. 7	143.0
	Dec. 22	143.9

	:		:	Dist.R.P.
Well Number :		:	to water	
and :		:	surface,	
R.P. Elev. :	Date :		Feet	

1953

3S3W18A	Jan. 23	86.3
1555.	Oct. 15	87.4
	Dec. 21	88.3
3S3W19C	Jan. 23	44.8
1508.4	Dec. 21	48.1
3S3W22A	Jan. 30	81.2
*	Dec. 22	94.2
3S3W30A	Jan. 23	70.7
1503.3	Dec. 21	70.5
3S3W30B	Jan. 23	136.9
1494.0		
3S3W31A	Jan. 23	126.8
1479.5	Oct. 15	126.4
	Dec. 21	126.7
3S3W32A	Jan. 30	210.5
1464.	Dec. 21	226.0
3S2W7A	Jan. 30	106.7
1590.7	Dec. 23	106.3
3S2W8A	Jan. 28	143.4
1676.5	Dec. 22	142.7
3S2W21A	Jan. 28	13.3
1441.7	Dec. 23	14.2
3S2W26A	Dec. 28	a 44.1
1460.		
3S2W26B	Feb. 13	a 55.8
1428.7		

* R.P. elev. 1507.0 through January 30, 1953; then 1506.6.

a Meas. from D.W.R.

Measts. from R.C.F.C.&W.C.D. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

3S2W29A	Jan. 27	15.6
1427.6	Oct. 21	17.9
	Dec. 23	17.6

3S2W33A	Feb. 12	a 43.9
1425.6		

3S2W34A	Feb. 12	a 32.6
1428.1		

3S2W35A	Feb. 13	a 23.3
1429.3		

3S2W35B	Feb. 13	a 9.5
1428.8		

4S4W1A	Jan. 26	45.7
1504.0		

4S3W2A	Jan. 26	49.7
1530.5	Dec. 22	47.8

4S3W3A	Jan. 26	165.5
1495.		

4S3W5A	Jan. 26	56.6
1446.	Dec. 21	62.2

4S3W6A	Jan. 30	222.5
1478.		

4S3W9A	Jan. 26	169.0
1446.0	Oct. 15	177.9
	Dec. 22	175.1

4S3W10A	Jan. 26	171.6
1479.	Dec. 21	173.1

4S3W18A	Jan. 26	122.9
1481.3	Oct. 15	130.0

4S3W19A	Jan. 26	84.4
1477.9	Oct. 15	86.0
	Dec. 22	84.7

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1952

4S3W20A	Feb. 2	a 229.2
1434.8		

1953

	Jan. 30	234.1
--	---------	-------

4S3W20B	Jan. 30	222.9
1438.		

4S3W24B	Feb. 2	131.0
1432.		

4S3W24C	Jan. 27	142.0
1442.2	June 12	149.8
	July 9	151.7
	Aug. 10	153.4
	Sep. 16	154.9
	Oct. 20	156.2
	Nov. 10	155.8
	Dec. 7	154.8

4S3W26A	Feb. 2	136.0
1427.2	Dec. 28	149.2

4S3W28A	Jan. 26	154.8
1414.0		

4S3W31A	Jan. 26	42.4
1461.	Oct. 16	42.2
	Dec. 27	42.4

1952

4S3W31B	Feb. 2	a 72.5
1438.		

1953

	Jan. 26	74.6
	Jan. 26	b
4S3W32A	June 10	70.0
1434.8	July 9	70.1
	Aug. 10	70.2
	Sep. 16	70.2
	Oct. 13	70.3
	Nov. 9	70.4
	Dec. 4	70.5

a Meas. from D.W.R.

b Dry at 75 feet.

Measts. from R.C.F.C.&W.C.D. except as noted

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1952		
4S3W32B	Feb. 2	182.6
1420.8		

1953		
	Jan. 26	a 184.5
4S3W35A	Jan. 27	a 137.8
1424.1	Dec. 12	a 149.8

1952		
4S3W35B	Feb. 1	140.7
1428.3		

1953		
	Jan. 27	a 144.3

4S2W1A	Apr. 7	8.9
1436.7	Oct. 13	8.9

4S2W2C	Oct. 21	a 53.8
1430.7		

4S2W3A	Apr. 7	65.2
1436.4	Oct. 13	71.9

4S2W6A	Feb. 12	41.3
1422.	Oct. 20	a 53.8

4S2W7A	Jan. 27	a 100.4
1445.3	Dec. 23	a 99.5

4S2W9A	Jan. 27	a 96.9
1444.0	Dec. 22	a 99.6

4S2W17A	Feb. 2	a 166.6
1495.	Dec. 28	a 182.2

4S2W18B	Feb. 2	a 135.0
1462.6		

4S2W19A	Jan. 27	a 20.4
1580.	June 12	a 22.5
	July 9	a 23.8
	Aug. 10	a 21.4
	Dec. 22	a 22.7

1953		
4S1W6A	Feb. 18	85.6
1551.		

4S1W7B	Feb. 17	6.4
1449.1	Dec. 18	3.7

4S1W15B	Oct. 20	a 95.2
1492.		

4S1W16B	Feb. 17	6.9
1475.7	Dec. 18	6.0

4S1W17A	Apr. 7	4.7
1455.4	Oct. 13	6.8

4S1W17B	Feb. 17	4.3
1457.5	Dec. 17	4.7

4S1W17D	Feb. 17	6.1
1464.4	Dec. 17	5.7

4S1W18A	Feb. 17	10.6
1450.0	Oct. 20	11.4
	Dec. 18	11.8

4S1W19A	Feb. 17	21.0
1458.8	Dec. 18	24.4

4S1W20A	Feb. 17	10.6
1478.8		

4S1W21A	Feb. 20	4.9
1473.6	Oct. 15	7.3

4S1W21B	Feb. 20	9.7
1491.2	Oct. 15	12.3
	Dec. 7	11.8

4S1W21C	Feb. 20	6.4
1489.0	Oct. 15	6.3
	Dec. 17	6.5

4S1W22A	Feb. 24	55.4
1508.6	Dec. 17	62.2

4S1W22B	Feb. 24	8.8
1506.0	Dec. 17	11.8

a Meas. from R.C.F.C.&W.C.D.

Measts. from D.W.R. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

4S1W22C	Feb. 24	6.9
1512.	Dec. 17	9.1

4S1W23A	Mar. 31	100.2
1551.2	Oct. 13	119.6
	Oct. 20	117.9
	Dec. 18	107.8

4S1W23C	Feb. 28	29.0
1519.		

4S1W25A	June 12	a	117.3
1566.	July 9	a	120.8
	Aug. 10	a	119.5
	Sep. 16	a	122.5
	Oct. 20	a	121.0
	Nov. 9	a	120.0
	Dec. 4	a	118.0

4S1W29B	Feb. 25	62.5
1502.0		

4S1W32B	Feb. 25	99.5
1527.5	Dec. 28	99.6

1952

4S1W33D	Mar. 20	82.8
1533.5	Sep. 22	101.6

1953

Apr. 7	101.0
Oct. 13	102.3

4S1W33E	Feb. 25	89.3
1533.8		

4S1W35A	Feb. 4	120.
1584.1		

4S1W36A	Feb. 26	148.5
1608.0		

1952

4S1E31B	Mar. 25	140.5
1606.9		

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

4S1E31B	Apr. 7	140.9
Cont.	Oct. 13	153.4

5S3W1A	Feb. 9	25.8
1529.6	Dec. 21	26.4

5S3W2A	Feb. 11	45.5
1525.		

5S3W2B	Feb. 11	92.0
1494.	Dec. 22	90.4

5S3W3A	Feb. 9	152.2
1426.	Dec. 21	168.0

5S3W5A	Feb. 11	28.0
1415.0	Dec. 21	28.9

5S3W5B	Feb. 9	153.2
1413.5	Dec. 21	171.6

5S3W6A	Jan. 23	51.0
1444.	Dec. 21	51.2

5S3W6B	Jan. 23	37.1
1443.	Dec. 21	38.7

5S3W7A	Jan. 23	18.2
1401.	Dec. 21	19.7

5S3W7B	Jan. 23	18.8
1423.	Dec. 21	21.4

5S3W8A	Jan. 30	138.4
1412.4	Oct. 16	148.0
	Dec. 21	158.0

5S3W11B	Feb. 11	214.8
1482.6		

5S3W13A	Feb. 10	44.1
1474.2	Oct. 20	48.8
	Dec. 21	51.8

5S3W14A	Feb. 3	87.4
1446.2		

5S3W16A	Feb. 3	148.0
1423.3		

a Meas. from R.C.F.C.&W.C.D.

Measts. from D.W.R. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

5S3W17A	Jan. 30	157.8
1444.3	Dec. 20	168.4
5S3W24A	Feb. 10	51.5
1460.3		
5S3W24B	Feb. 10	61.7
1465.7		
5S3W24C	Feb. 10	52.8
1456.9		
5S3W25A	Feb. 10	36.7
1447.0	Oct. 20	34.7
	Dec. 20	35.5
5S3W27A	Dec. 20	26.5
1525.2		
5S3W33D	Jan. 23	77.6
1420.1	Dec. 20	99.5
5S3W34C	Jan. 30	73.2
1417.5		
5S3W35A	Jan. 23	69.2
1423.3	Dec. 20	81.3
5S3W36A	Feb. 10	55.4
1430.9		
5S3W36C	Jan. 23	70.8
1424.9		
5S3W36D	Feb. 11	40.4
1449.3		
5S2W7A	Feb. 11	188.0
1542.4	Dec. 21	215.8
5S2W7B	Feb. 11	178.9
1531.3		
5S2W12A	Jan. 27	38.1
1507.5		

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

5S2W17A	Feb. 5	49.4
1594.		
5S2W17B	Feb. 5 a	
1607.		
5S2W22B	Feb. 5	56.7
1512.9		
5S2W22C	Feb. 5	55.8
1503.8	Dec. 19	55.4
5S2W24A	Jan. 30	48.8
1495.2		
5S2W24B	Jan. 29	44.2
1499.8	Dec. 19	48.6
5S2W24C	Jan. 29	45.4
1500.0	Dec. 19	51.9
5S2W24D	Jan. 30	62.6
1498.	Dec. 19	67.1
5S2W25B	Feb. 4	95.7
1486.6	Dec. 19	108.3
5S2W27E	Feb. 5	44.3
1476.9	June 12 b	45.7
	July 9 b	45.7
	Aug. 10 b	45.2
	Sep. 16 b	46.1
	Oct. 16 b	46.6
	Nov. 9 b	46.8
	Dec. 4 b	46.9
5S2W31A	Feb. 6	22.0
1457.1		
5S2W32C	Feb. 11	24.7
1455.0		
5S2W33A	Feb. 11	33.4
1460.1		
5S2W35A	Feb. 4	81.2
1481.0	Dec. 19	89.2

a Dry at 25 feet.

b Meas. from R.C.F.C.&W.C.D.

Measts. from D.W.R. except as noted.

Well Number :	:	Dist. R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

5S2W35C	Feb. 4	70.0
1474.8		
5S2W35D	Feb. 4	67.1
1471.0	Dec. 20	68.1
5S2W36A	Feb. 4	82.5
1483.5	Dec. 19	91.3
5S1W1A	Feb. 10	156.3
1624.8		
5S1W2A	Feb. 10	142.
1582.4		
5S1W3A	Feb. 9	80.
1546.6	Dec. 29	84.6
5S1W3C	Apr. 7	96.8
1549.6	Oct. 13	104.6
5S1W4A	Feb. 10	92.8
1558.8	Dec. 29	102.0
5S1W4C	Feb. 10	69.0
1510.9	Dec. 29	72.7
5S1W4D	Feb. 10	99.7
1538.0	Dec. 29	102.0
5S1W5A	Feb. 10	57.6
1519.3		
5S1W5B	Dec. 29	100.9
1528.2		
5S1W7A	Jan. 27	33.3
1505.		
5S1W7B	Jan. 27	42.1
1510.7	Dec. 19	44.9
5S1W7C	Jan. 27	43.3
1505.8		
5S1W9A	Feb. 10	114.2
1542.0	June 10 a	145.5

Well Number :	:	Dist. R.P.
and :	:	to water
R.P. Elev. :	:	surface,
Date :	:	Feet

1953

5S1W9A	July 9 a	139.7
Cont.	Aug. 10 a	138.7
	Oct. 19 a	125.4
	Nov. 9 a	122.8
	Dec. 4 a	112.9
5S1W10A	Apr. 7	153.1
1583.4	Oct. 13	159.8
5S1W11A	Feb. 10	206.5
1638.2	Dec. 29	230.2
	1952	
5S1W13B	Mar. 25	232.0
1688.5		
	1953	
	Apr. 7	253.3
	Dec. 29	268.3
5S1W14B	Dec. 29	228.7
1640.2		
5S1W15A	Dec. 18	184.2
1603.		
5S1W16B	Dec. 20	137.6
1543.5		
5S1W16E	Dec. 18	145.6
1577.		
5S1W17B	Jan. 28	93.2
1522	Dec. 19	112.1
5S1W18A	Jan. 28	81.8
1511.5	Dec. 19	82.5
5S1W18C	Jan. 28	72.2
1512.		
5S1W19A	Jan. 29	86.6
1515.5		

a Meas. from R.C.F.C.&W.C.D.

Measts. from D.W.R. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

5S1W19C	Jan. 29	58.1
1512.3	Dec. 19	59.0

5S1W20A	Jan. 29	105.0
1528.7	Dec. 19	121.4

5S1W20D	Jan. 29	87.7
1527.	Dec. 19	95.9

5S1W28A	Jan. 22	32.5
1568.7	Dec. 18	35.1

5S1W30A	Feb. 3	102.9
1501.		

5S1W30B	Feb. 2	103.2
1503.7	Oct. 19	110.

5S1E5A	Feb. 4	40.0
1663.7	Dec. 17	57.2

1952

5S1E6A	Dec. 20	173.3
1650.5		

1953

	Feb. 11	170.5
--	---------	-------

1952

5S1E6B	Jan. 14	180.2
1657.1		

1953

	Jan. 15	160.0
	Dec. 17	182.4

1952

5S1E6C	Mar. 25	162.3
1651.5		

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

1953

5S1E6C	Mar. 6	158.6
Cont.	Dec. 17	171.7

5S1E7A	Jan. 15	241.4
1726.3	Oct. 19	253.1
	Dec. 18	251.7

5S1E9D	Oct. 19	a 72.7
1759.8		

1952

5S1E10B	Mar. 19	16.1
1810.6	Aug. 6	14.7

1953

	Apr. 8	16.5
	Oct. 13	26.2

5S1E14A	Apr. 8	154.3
1890.	Dec. 18	163.8

1952

5S1E17A	Mar. 25	279.4
1774.1	Oct. 15	281.8

1953

	Apr. 8	278.7
	Oct. 13	287.7

1952

5S1E17B	Mar. 27	301.1
1841.5	Oct. 15	307.4

1953

	Apr. 8	304.5
	Oct. 13	312.5

5S1E17C	Feb. 5	298.8
*	Dec. 18	309.1

* Correction to all previous bulletins: R.P. elev. 1803.7 through April 15, 1947; then 1803.9, from levels by D.W.R.
a Meas. from R.C.F.C.&W.C.D.
Measts. from D.W.R. except as noted.

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

	1953	
5S1E17D	Feb. 11	340.7
1831.2	Dec. 18	344.1

	1943	
5S1E18A	Dec. 9	a 197.5
*		

	1944	
	Aug. 5	a 198.

	1946	
	Nov. 25	a 202.

	1947	
	Jan. 22	a 199.4

	1949	
	Mar. 17	a 225.5

	1953	
	Feb. 20	298.8
	Dec. 18	277.9

	1951	
5S1E18C	Jan. 22	b 200.8
1730.		

	1952	
	Mar. 25	211.2

	1953	
	Dec. 18	222.6

5S1E19A	Feb. 5	317.0
1803.2		

	:	:	Dist.R.P.
Well Number :	:	:	to water
and :	:	:	surface,
R.P. Elev. :	Date :	:	Feet

	1952	
5S1E20A	Mar. 24	314.0
1863.8		

	1953	
	Jan. 22	314.6
5S1E20C	Jan. 5	325.
1903.9		

5S1E20D	Jan. 15	322.0
1877.9		

6S3W2B	Jan. 23	68.3
1425.5	Dec. 20	69.1

6S3W3A	Jan. 23	73.7
1428.3	Dec. 20	89.8

6S3W4A	Jan. 23	72.9
1438.3	June 10	a 68.3
	Oct. 16	a 67.8
	Nov. 9	a 65.1
	Dec. 4	a 65.7

6S3W5A	Dec. 20	55.1
1399.0		

6S3W12A	Jan. 23	72.9
1429.5	Dec. 20	90.6

6S2W5A	Jan. 23	83.4
1441.		

6S2W6B	Jan. 23	80.7
1438.5	Dec. 20	95.6

6S1W10A	Jan. 22	84.8
1710.	Dec. 18	88.2

* R.P. elev. 1771.3 through January 22, 1947; then 1770.3.

a Meas. from R.C.F.C.&W.C.D.

b Meas. from M.W.D.

Measts. from D.W.R. except as noted.

Records of Ground Water Levels at Wells
in Antelope Valley



Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1953

5N9W6A 2847.3	Dec. 2	57.5
5N9W20A 3166.	Nov. 27	263.9
5N10W6A 2777.	Feb. 17	109.7
	Mar. 17	109.6
	Apr. 7	112.7
	May 6	112.6
	June 11	115.2
	July 7	117.5
	Aug. 4	118.7
	Sep. 1	122.1
	Oct. 6	118.1
	Nov. 10	119.0
5N10W7A 2817.	Feb. 17	152.6
	Apr. 7	155.2
	May 6	155.6
	June 11	163.9
	July 7	165.4
	Aug. 4	176.7
	Sep. 1	172.3
	Nov. 6	157.8
5N10W26A 3155.	Nov. 27	51.2
5N11W4A 2695.	Nov. 27	173.3
5N11W10A 2836.	Feb. 17	110.2
	Mar. 17	110.5
	Apr. 7	110.8
	May 6	111.0
	June 11	111.2
	July 7	111.6
	Aug. 4	111.8
	Sep. 1	112.0
	Oct. 6	112.2
	Nov. 10	112.7
5N11W12B 2834.	Nov. 17	167.4

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface,
		Feet

1952

6N8W18A 2725.0	Dec. 2	164.3
6N10W9B 2576.3	Dec. 3	201.4
6N10W9C 2598.5	Dec. 2	157.6
6N10W20A 2637.6	Dec. 3	217.0
6N10W27A 2677.	Dec. 2	158.8
6N11W4A 2481.	Dec. 3	222.1
6N11W12A 2541.	Mar. 17	235.6
	Oct. 6	241.8
	Nov. 10	239.1
	Dec. 3	239.6
6N11W12C 2552.	Dec. 3	229.7
6N11W20A 2581.	Dec. 2	276.3
6N12W24A 2587.	Feb. 17	278.1
	Mar. 11	278.5
	Apr. 7	282.2
	May 6	283.2
	June 11	287.4
	Oct. 6	287.5
	Nov. 10	287.8
	Dec. 1	275.1
6N13W12A 2607.5	Dec. 1	260.8
7N10W21A 2465.3	Dec. 7	197.2
7N11W24A 2433.	Jan. 29 a	172.7
	Feb. 26 a	173.9

a Meas. from U.S.G.S.

Measts. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

7N11W24A	Mar. 31	a	179.8
Cont.	Apr. 29	a	181.6
	May 29	a	184.9
	Dec. 3		189.2

7N11W28D	Dec. 3		201.5
2440.8			

7N12W4B	Mar. 11		14.4
2312.8	Aug. 31		17.2

7N12W15C	Mar. 11		73.3
2348.5	Aug. 31		97.7
	Dec. 1		83.3

7N13W11B	June 10		6.6
2356.	Aug. 31		7.0
	Dec. 1		6.0

7N13W17A	Dec. 1		153.4
2421.7			

7N13W21C	Dec. 1		129.8
2373.			

7N13W27A	Dec. 1		210.8
2421.			

7N13W35A	Dec. 7		269.7
2443.6			

7N14W10A	Mar. 10		222.6
2558.	June 10		220.4
	Aug. 31		227.3
	Dec. 1		224.3

8N9W11	Nov. 24	b	21.6
2294.			

8N10W2A	Nov. 23	b	32.2
2310.			

8N10W19A	Nov. 23	b	123.3
2342.5			

a Meas. from U.S.G.S.

b Meas. from D.W.R.

Measts. from L.A.C.F.C.D. except as noted.

Well Number :	:	Dist.R.P.
and :	:	to water
R.P. Elev. :	Date :	surface, Feet

1953

8N12W4B	Nov. 23	b	30.7
2307.7			

8N12W20A	Nov. 24	b	40.0
2319.			

8N12W22A	Mar. 11		13.3
2301.5			

8N12W22B	Nov. 23	b	26.0
2302.			

8N12W22C	Nov. 23	b	26.0
2301.			

8N12W24A	Nov. 24	b	21.8
2310.			

8N12W30B	Nov. 24	b	34.4
2324.			

8N13W7A	Nov. 25	b	172.4
2442.			

8N14W14A	Nov. 23	b	186.1
2495.			

8N15W36A	Nov. 24	b	81.8
2786.5			

8N16W5A	Mar. 10		199.5
2901.	June 10		201.6
	Aug. 31	b	201.2
	Nov. 24	b	202.3

9N13W20A	Mar. 11		125.8
2430.			

9N13W35A	Nov. 24	b	105.3
2378.1			

9N14W24B	Nov. 25	b	155.0
2490.			

CHAPTER IV. PRECIPITATION RECORDS

Monthly records of precipitation for ten United States Weather Bureau stations and annual records for approximately 260 other stations in the area are presented herewith.



MONTHLY PRECIPITATION RECORDS
AT SELECTED STATIONS IN SOUTHERN CALIFORNIA
PUBLISHED BY U. S. WEATHER BUREAU

Precipitation in Inches

Season and Month	413 <u>Long Beach</u>	2754F <u>Los Angeles</u>	3290 <u>Claremont</u>	4142A <u>Sierra Madre</u>	4832A <u>San Fernando</u>
<u>1952-53</u>					
July	0.00	T	0.00	0.00	T
Aug.	T	T	0.00	T	0.00
Sep.	0.05	0.13	0.32	0.07	0.34
Oct.	0.00	0.00	0.00	0.00	0.00
Nov.	4.14	3.13	4.50	4.85	4.06
Dec.	3.64	3.31	3.01	4.89	3.49
Jan.	1.43	1.08	1.24	1.29	1.39
Feb.	0.18	0.33	0.78	0.55	0.05
Mar.	0.47	0.48	1.25	1.42	0.55
Apr.	1.50	0.91	1.69	1.65	1.74
May	0.11	0.03	0.13	0.15	0.08
June	0.05	0.06	0.05	0.24	0.03
TOTALS	11.57	9.46	12.97	15.11	11.73

	14552 <u>Santa Ana</u>	15933 <u>Corona</u>	17004 <u>Riverside</u>	17417 <u>Beaumont</u>	18826 <u>San Bernardino (near)</u>
<u>1952-53</u>					
July	0.00	0.00	0.21	0.14	0.06
Aug.	0.00	0.00	T	0.00	0.00
Sep.	0.35	0.40	0.51	1.01	0.50
Oct.	0.00	T	0.00	0.00	0.00
Nov.	3.53	2.45	2.84	3.19	3.42
Dec.	3.09	2.61	2.74	3.71	3.29
Jan.	1.13	0.99	0.69	2.23	1.85
Feb.	0.54	0.29	0.24	0.84	0.31
Mar.	0.79	0.77	0.84	1.38	1.47
Apr.	1.20	0.91	1.45	1.09	2.24
May	0.03	T	0.06	0.41	0.00
June	0.00	0.00	T	T	0.00
TOTALS	10.66	8.42	9.58	14.00	13.14

T - Less than 0.01 inch.

PRECIPITATION RECORDS FOR SEASON 1952-53

(Season - July 1 to June 30)

<u>Station</u>	<u>Map Index</u>	<u>Elevation</u>	<u>Precipitation in inches</u>	<u>Source of Information</u>
185	O-6	125	7.04	L.A.C.F.C.D.
210	N-7	300	6.64	L.A.C.F.C.D.
327	P-9	10	8.71	U.S.W.B. (San Pedro)
341	N-9	40	7.57	L.A.C.F.C.D.
401	N-10	40	10.65	L.A.C.F.C.D.
403	O-10	30	9.15	L.A.C.F.C.D.
403B	O-10	30	9.18	L.A.C.F.C.D.
413	O-10	40	11.57	U.S.W.B. (Long Beach)
452	N-11	15	9.30	L.A.C.F.C.D.
453	O-11	15	8.63	L.A.C.F.C.D.
485	O-12	25	7.93	O.C.F.C.D.
587	P-14	15	8.44	O.C.F.C.D.
596	O-14	25	8.88	O.C.F.C.D.
715	M-7	50	7.90	L.A.C.F.C.D.
864	M-10	195	8.14	L.A.C.F.C.D.
985	M-12	45	8.88	L.A.C.F.C.D.
1014	M-12	50	13.47	L.A.C.F.C.D.
1030	L-13	85	9.80	L.A.C.F.C.D.
1081	L-14	90	9.64	L.A.C.F.C.D.
1099	N-14	60	8.75	O.C.F.C.D.
1137	M-15	105	9.07	O.C.F.C.D.
1187	M-16	155	10.59	O.C.F.C.D.
1199	N-16	140	10.25	O.C.F.C.D.
1241	I-5	10	10.23	L.A.C.F.C.D.
1288	K-6	135	8.04	L.A.C.F.C.D.
1343	J-7	120	9.63	L.A.C.F.C.D.
1444	J-9	120	10.09	L.A.C.F.C.D.
1475	K-10	110	10.07*	L.A.C.F.C.D.
1482	J-10	165	10.34	L.A.C.F.C.D.
1502	J-10	145	9.80	L.A.C.F.C.D.
1546	K-11	105	10.25	L.A.C.F.C.D.
1552	J-11	140	10.35	L.A.C.F.C.D.
1565	K-12	120	10.56	L.A.C.F.C.D.
1604	J-12	140	10.05	L.A.C.F.C.D.
1661	J-13	365	10.29*	L.A.C.F.C.D.
1700	I-14	860	12.07	L.A.C.F.C.D.
1706	K-14	250	9.83*	L.A.C.F.C.D.
1750	I-15	465	10.65*	L.A.C.F.C.D.
1757	K-15	285	9.46	O.C.F.C.D.
1774	J-15	635	11.81	L.A.C.F.C.D.
1786	K-16	475	10.83	O.C.F.C.D.
1853	J-17	710	12.68*	L.A.C.F.C.D.

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1952-53
(Season - July 1 to June 30)

<u>Station</u>	<u>Map Index</u>	<u>Elevation</u>	<u>Precipitation in Inches</u>	<u>Source of Information</u>
1862	J-17	765	11.60*	L.A.C.F.C.D.
1901	I-18	975	12.92	O.C.F.C.D.
1906	K-18	850	12.87	O.C.F.C.D.
1933	J-19	1150	12.36	O.C.F.C.D.
2401	G-3	745	15.05	L.A.C.F.C.D.
2445	H-3	95	9.72*	L.A.C.F.C.D.
2508A	I-5	88	11.63	U.S.W.B. (Santa Monica)
2511	G-5	1025	14.86	L.A.C.F.C.D.
2544	H-5	340	11.24	L.A.C.F.C.D.
2551	G-6	540	12.44	L.A.C.F.C.D.
2555	H-5	230	11.97*	L.A.C.F.C.D.
2592	H-6	255	11.03	L.A.C.F.C.D.
2607	I-7	65	11.20	L.A.C.F.C.D.
2643	H-7	175	11.00	L.A.C.F.C.D.
2686	H-8	200	10.04	L.A.C.F.C.D.
2754	H-9	285	10.08	L.A.C.F.C.D.
2754F	H-9	312	9.46	U.S.W.B. (Los Angeles)
2755	H-9	260	9.31	L.A.C.F.C.D.
2870	G-12	485	13.62	L.A.C.F.C.D.
2875	H-12	375	10.95*	L.A.C.F.C.D.
2915	H-12	320	11.60	L.A.C.F.C.D.
2962	G-13	285	11.19	L.A.C.F.C.D.
3009	I-14	600	13.11	L.A.C.F.C.D.
3053	H-15	360	11.06	L.A.C.F.C.D.
3094	H-16	470	11.62	L.A.C.F.C.D.
3121	G-16	575	11.93	L.A.C.F.C.D.
3123	H-16	630	12.09	L.A.C.F.C.D.
3149A	I-17	530	11.72	L.A.C.F.C.D.
3155	H-17	770	12.49	L.A.C.F.C.D.
3160	G-17	805	11.95*	L.A.C.F.C.D.
3190	G-18	1030	12.03	L.A.C.F.C.D.
3223	H-18	840	12.78	U.S.W.B. (Pomona)
3244	H-19	860	12.87	L.A.C.F.C.D.
3256	I-19	780	12.37	L.A.C.F.C.D.
3280	G-19	1165	12.98	L.A.C.F.C.D.
3290	G-20	1195	12.97	U.S.W.B. (Claremont)
3602	E-3	875	10.67*	L.A.C.F.C.D.
3706	F-5	1400	13.59	L.A.C.F.C.D.
3742	E-5	695	11.16	L.A.D.W.&P.
3749	G-5	725	14.22	L.A.C.F.C.D.
3786	F-6	1175	14.10*	L.A.C.F.C.D.
3810	E-7	730	8.48	L.A.C.F.C.D.
3834	F-7	595	10.30	L.A.C.F.C.D.

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1952-53
(Season - July 1 to June 30)

<u>Station</u>	<u>Map Index</u>	<u>Eleva- tion</u>	<u>Precipitation in Inches</u>	<u>Source of Information</u>
3868	F-8	750	9.97	L.A.C.F.C.D.
3891	E-8	620	11.41	L.A.C.F.C.D.
3894	F-8	470	11.48	L.A.C.F.C.D.
3897	F-8	1025	11.23	L.A.C.F.C.D.
3906	F-8	1400	12.03	L.A.C.F.C.D.
3907	F-8	1400	11.68	L.A.C.F.C.D.
3917	G-9	750	11.38	L.A.C.F.C.D.
3921A	E-9	1300	13.63	L.A.C.F.C.D.
3934	F-9	530	11.14	L.A.C.F.C.D.
3939	G-9	455	9.68	L.A.C.F.C.D.
3943	E-9	620	11.49	L.A.C.F.C.D.
4001	E-10	1335	13.90	L.A.C.F.C.D.
4010	E-10	1155	13.64	L.A.C.F.C.D.
4023	E-11	1040	13.27	L.A.C.F.C.D.
4028	G-11	620	11.56	L.A.C.F.C.D.
4048	G-11	690	11.95	L.A.C.F.C.D.
4061	E-11	1125	13.66	L.A.C.F.C.D.
4073	F-12	985	14.17	L.A.C.F.C.D.
4076	F-12	750	13.71*	L.A.C.F.C.D.
4087	F-12	670	14.24	L.A.C.F.C.D.
4092	E-12	1055	12.66	L.A.C.F.C.D.
4099	G-12	490	12.11	L.A.C.F.C.D.
4110	E-12	2515	15.51	L.A.C.F.C.D.
4135	F-13	630	13.62	L.A.C.F.C.D.
4142A	E-13	1120	15.11	L.A.C.F.C.D.
4152	E-13	1100	14.98	L.A.C.F.C.D.
4153	E-13	985	15.29	L.A.C.F.C.D.
4154	F-13	660	13.89	L.A.C.F.C.D.
4163	F-13	700	13.83	L.A.C.F.C.D.
4164	F-13	610	13.73	L.A.C.F.C.D.
4171A	E-14	1400	16.15	L.A.C.F.C.D.
4195	F-14	600	12.65	L.A.C.F.C.D.
4212	E-14	1375	16.25	L.A.C.F.C.D.
4230	E-15	2725	21.23	L.A.C.F.C.D.
4231	E-15	2300	17.33	L.A.C.F.C.D.
4285	F-16	675	12.24	L.A.C.F.C.D.
4293	E-16	800	14.58	L.A.C.F.C.D.
4294	F-16	750	13.33	U.S.W.B. (City of Pasadena Power House)
4296	F-16	600	12.56	L.A.C.F.C.D.
4296A	F-16	605	12.53	U.S.W.B. (Azusa)
4306	F-16	615	12.52	L.A.C.F.C.D.
4309	G-16	545	11.23	L.A.C.F.C.D.
4331	E-16	1210	16.13	L.A.C.F.C.D.

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1952-53
(Season - July 1 to June 30)

<u>Station</u>	<u>Map Index</u>	<u>Elevation</u>	<u>Precipitation in Inches</u>	<u>Source of Information</u>
4336	F-17	785	12.69	L.A.C.F.C.D.
4346	F-17	820	13.57	L.A.C.F.C.D.
4354	F-17	1200	14.80	L.A.C.F.C.D.
4383	E-18	1575	16.65	L.A.C.F.C.D.
4386	F-17	965	13.44	L.A.C.F.C.D.
4399	G-18	960	12.72	L.A.C.F.C.D.
4407A	G-18	1080	12.99	L.A.C.F.C.D.
4407	F-18	1110	13.85	L.A.C.F.C.D.
4424	F-18	1350	15.36	L.A.C.F.C.D.
4433	E-18	1500	15.90	L.A.C.F.C.D.
4444	F-19	1680	15.43	L.A.C.F.C.D.
4457	F-19	1255	13.93*	L.A.C.F.C.D.
4487	F-19	1405	13.76	L.A.C.F.C.D.
4517	G-20	1525	14.02	L.A.C.F.C.D.
4522	E-20	2500	17.44	U.S.W.B. (Mouth of San Antonio Canyon)
4566	F-21	1605	14.75	Liberty Groves Operating Corporation
4687	D-2	900	11.93	L.A.C.F.C.D.
4694	C-2	965	11.21	L.A.C.F.C.D.
4747	D-4	800	11.56	L.A.C.F.C.D.
4811	C-5	1150	12.72	L.A.C.F.C.D.
4832	C-5	950	11.73	L.A.C.F.C.D.
4837	D-5	815	11.18*	L.A.C.F.C.D.
4864	C-6	945	10.06	L.A.C.F.C.D.
4894	C-6	955	11.09	L.A.C.F.C.D.
4946	D-7	1000	10.05	L.A.C.F.C.D.
5076	D-10	2325	15.06	L.A.C.F.C.D.
5109	E-10	1280	13.49	L.A.C.F.C.D.
5115	D-11	1820	13.51	L.A.C.F.C.D.
5127	D-11	1220	13.17	U.S.W.B. (Arroyo Seco)
5139	E-11	1180	13.36	L.A.C.F.C.D.
5144	C-11	2980	14.59	L.A.C.F.C.D.
5204	C-12	4230	20.34	U.S.W.B. (Opid's Camp)
5247	D-13	5675	21.23	L.A.C.F.C.D.
5267	D-13	3375	23.65*	L.A.C.F.C.D.
5269	D-13	2600	23.87	L.A.C.F.C.D.
5446	D-17	1500	15.93	L.A.C.F.C.D.
5549	D-19	2700	15.98	L.A.C.F.C.D.
5646	D-21	4320	18.51	U.S.W.B. (Camp Baldy)
5861	A-4	1245	11.07	L.A.C.F.C.D.
5908	B-5	1225	13.26	L.A.C.F.C.D.

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1952-53
(Season - July 1 to June 30)

<u>Station</u>	<u>Map Index</u>	<u>Elevation</u>	<u>Precipitation in Inches</u>	<u>Source of Information</u>
5922	A-5	1480	10.67	L.A.C.F.C.D.
5928	B-5	1250	13.42	L.A.C.F.C.D.
5999	B-6	1425	12.19*	L.A.C.F.C.D.
6005	B-7	1600	13.26	L.A.C.F.C.D.
6289A	B-12	3625	13.55	L.A.C.F.C.D.
6355	A-13	4300	12.07	U.S.W.B. (Alder Creek)
6558A	B-17	5735	21.31	L.A.C.F.C.D.
6569	B-17	4650	17.90*	L.A.C.F.C.D.
6702	A-20	6860	16.61	L.A.C.F.C.D.
6711	A-20	7500	14.07	L.A.C.F.C.D.
7017	A-3	1095	8.04	L.A.C.F.C.D.
13193	Q-14	35	8.22	O.C.F.C.D.
13301	Q-16	35	7.21	O.C.F.C.D.
13309	R-16	10	8.48	U.S.W.B. (Newport Beach)
13363	Q-17	65	8.14	O.C.F.C.D.
13402	Q-18	100	7.94	O.C.F.C.D.
13406	R-18	300	9.48	O.C.F.C.D.
13432	Q-19	190	8.68	O.C.F.C.D.
13480	P-19	445	9.65	O.C.F.C.D.
13484	Q-19	350	8.60	O.C.F.C.D.
13499	R-20	375	9.76	O.C.F.C.D.
13633	Q-22	1100	14.22	O.C.F.C.D.
13864	Q-27	1270	17.85	U.S.W.B. (Elsinore)
13902	Q-28	1390	14.81	Temescal Water Co.
14451	N-15	100	9.04	O.C.F.C.D.
14535	O-17	120	9.66	O.C.F.C.D.
14552	O-17	205	10.66	U.S.W.B. (Santa Ana)
14617	P-18	120	9.57	U.S.W.B. (Tustin, near)
14649	P-19	245	9.13	O.C.F.C.D.
14673	O-19	1000	11.81	O.C.F.C.D.
14765	O-21	1500	13.16	O.C.F.C.D.
14835	O-22	2000	16.75	O.C.F.C.D.
14902	N-24	1100	11.04	Temescal Water Co.
15420	N-34	1550	11.59	U.S.W.B. (San Jacinto)
15602	L-16	195	11.37	O.C.F.C.D.
15614	L-16	195	9.95	O.C.F.C.D.
15623	L-16	225	11.21	O.C.F.C.D.
15678	M-17	295	10.33	O.C.F.C.D.
15679	N-17	285	10.61	O.C.F.C.D.
15681	L-18	385	10.09	U.S.W.B. (Yorba Linda)
15860	L-21	480	9.13	O.C.F.C.D.
15903	L-22	840	3.97*	Corona Foothill Lemon Co.

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1952-53
(Season - July 1 to June 30)

<u>Station</u>	<u>Map Index</u>	<u>Elevation</u>	<u>Precipitation in Inches</u>	<u>Source of Information</u>
15925	M-22	1055	10.32	Corona Foothill Lemon Co.
15926	M-22	1250	11.78*	Corona Foothill Lemon Co.
15932	L-22	700	9.33	Temescal Water Co.
15955	M-23	1050	9.64*	American Fruit Growers Assn.
16050	L-25	925	5.41	San Jacinto Land Co.
16710	I-20	670	10.90	Southern Calif. Edison Co., Ltd.
16801	J-22	655	7.91	John Imbach
16845	K-22	660	8.39	Capt. C. Gully
17062	J-27	1040	9.84	University of California, Agricultural Experiment Station
17342	J-32	2220	9.91	Moreno Mutual Water Co.
17608	I-20	710	12.03	American Beet Sugar Co.
17613	H-20	985	13.22	West Ontario Citrus Assn.
17630	G-20	1230	17.51	Mr. Jordan
17653	H-21	1010	13.06	Southern Pacific Co.
17674	H-21	930	11.37	Braundale Acres
17703	H-22	975	11.82	Guasti Wine Co.
17860	G-25	1270	13.41	Fontana Farms Co.
17973	H-27	975	10.35	Southern Pacific Co.
17973A	H-27	980	11.38	Colton Police Dept.
17984	H-27	950	12.55	Southern Calif. Edison Co., Ltd.
18082	H-29	1220	12.41	Crown Jewel Groves
18114	H-30	1360	13.95	U.S.W.B. (Redlands)
18125	H-30	1470	13.10	D.S.C. Anderson
18163	H-31	1645	14.24	Crafton Orange Growers Assn.
18194	H-31	2000	15.50	F. B. King
18256	I-33	2650	14.35	R. H. Arnett
18260	G-32	2965	17.07	U.S.W.B. (Mill Creek Power House No. 2)
18351	G-34	5100	21.74	Southern Calif. Edison Co., Ltd.
18529A	G-22	1215	13.14	Garrett & Co., Inc.
18586	F-23	1425	15.28	W. F. Barnes
18679	G-25	1320	13.47*	U.S.W.B. (Fontana)
18704	F-26	1590	23.82	Southern Calif. Edison Co., Ltd.
18782	E-27	1415	15.60	San Bernardino Water Dept.

* Partially estimated by comparison with nearby stations.

PRECIPITATION RECORDS FOR SEASON 1952-53
(Season - July 1 to June 30)

<u>Station</u>	<u>Map Index</u>	<u>Eleva- tion</u>	<u>Precipitation in Inches</u>	<u>Source of Information</u>
18809A	G-28	1030	10.99	San Bernardino Water Dept.
18826	F-28	1170	13.14	U.S.W.B. (San Bernardino, near)
18886	F-28	1345	13.19	Mrs. E. E. Corwin
18906	F-29	1435	14.44	Thomas A. Ewing
18928	G-30	1365	13.36	Gold Buckle Assn.
18937	G-30	1515	15.56*	East Highlands Orange Co.
18999	G-31	2060	16.80	Southern Calif. Edison Co., Ltd.
19045	F-32	2765	20.07	U.S.W.B. (Santa Ana River)
19416	D-24	2720	24.28	U.S.W.B. (Lytle Creek Ranger Station)
19449	E-25	2260	25.46	Fontana Union Water Co.
19459	E-25	2250	24.29	U.S.W.B. (Lytle Creek)
19569	E-27	1900	18.92	San Bernardino Water Dept.
19723	C-30	6250	27.59	Lake Arrowhead Co.
19915	D-34	6800	27.77	U.S.W.B. (Bear Valley Reservoir Dam)

* Partially estimated by comparison with nearby stations.

LEGEND

- WELLS AT WHICH WATER LEVEL FLUCTUATIONS ARE SHOWN
- WATER POLLUTION CONTROL REGION BOUNDARY
- 8-8 8-7 GROUND WATER BASIN
- GROUND WATER SUB-BASIN BOUNDARY
- 4 WATER POLLUTION CONTROL REGION NUMBER
- 4-1 GROUND WATER BASIN NUMBER
- 4-1.01 GROUND WATER SUB-BASIN NUMBER
- COUNTY BOUNDARY
- 88 U. S. HIGHWAY

CO
CO.
AQUEDUCT

LOS ANGELES REGION NO. 4, GROUND WATER BASINS

- | | |
|------------------------------|---|
| 4-1 Upper Ojai Valley | 4-11 Coastal Plain, Los Angeles County |
| 4-2 Ojai Valley | 4-11.02 West Coast Basin |
| 4-3 Ventura River Valley | 4-11.03 Central Coastal Plain Pressure Area |
| 4-4 Santa Clara River Valley | 4-11.05 Montebello Forebay Area |
| 4-4.01 Oxnard Plain Basin | 4-12 San Fernando Valley |
| 4-4.02 Oxnard Forebay Basin | 4-12.01 San Fernando Basin |
| 4-5 Acton Valley | 4-13 San Gabriel Valley |
| 4-6 Pleasant Valley | 4-13.01 Malo San Gabriel Basin |
| 4-7 Arroyo Santa Rosa Valley | 4-13.03 Pasadena Sub-area |
| 4-8 Las Posas Valley | 4-13.04 Santa Anita Sub-area |
| 4-9 Simi Valley | 4-14 Upper Santa Ana Valley, Los Angeles County |
| 4-10 Conejo Valley | |

IAHOMTAN REGION NO. 6, GROUND WATER BASINS

- 6-44 Antelope Valley

SANTA ANA REGION NO. 8, GROUND WATER BASINS

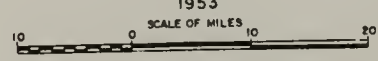
- | | |
|---|------------------------|
| 8-1 Coastal Plain, Orange County | 8-3 Cajalco Valley |
| 8-1.01 East Coastal Plain Pressure Area | 8-4 Elsinore Basin |
| 8-1.02 Santa Ana Forebay Area | 8-5 San Jacinto Basin |
| 8-2 Upper Santa Ana Valley | 8-6 Hemet Lake Valley |
| 8-2.01 Chico Basin | 8-7 Big Meadows Valley |
| 8-2.06 Bunker Hill Basin | 8-8 Seven Oaks Valley |
| | 8-9 Bear Valley |

SAN DIEGO REGION NO. 9, GROUND WATER BASINS

- | | |
|----------------------------|-----------------------------|
| 9-1 San Juan Valley | 9-11 Santa Maria Valley |
| 9-2 San Mateo Valley | 9-12 San Dieguito Valley |
| 9-3 San Onofre Valley | 9-13 Foway Valley |
| 9-4 Santa Margarita Valley | 9-14 Mission Valley |
| 9-5 Temecula Valley | 9-15 San Diego River Valley |
| 9-6 Coachella Valley | 9-16 El Cajon Valley |
| 9-7 San Luis Rey Valley | 9-17 Sweetwater Valley |
| 9-8 Warner Valley | 9-18 Otay Valley |
| 9-9 Escondido Valley | 9-19 Tia Juana Basin |
| 9-10 San Pasqual Valley | 9-20 Jamul Valley |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
SOUTHERN CALIFORNIA AREA INVESTIGATION

LOCATION OF WELLS AT WHICH WATER LEVEL FLUCTUATIONS ARE SHOWN
1953



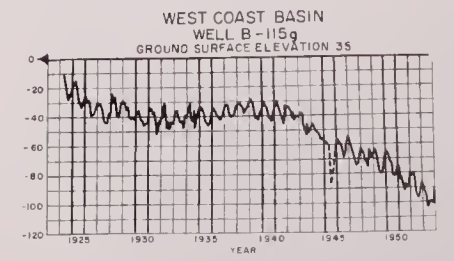
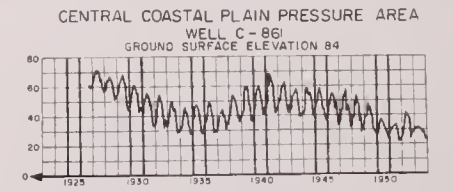
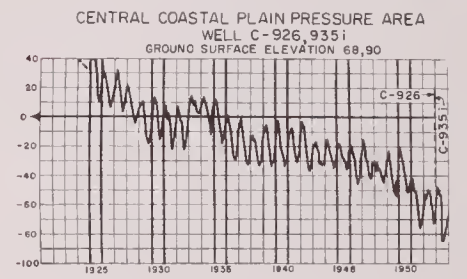
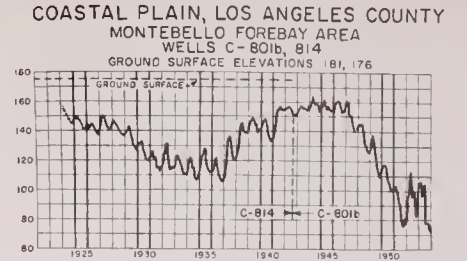
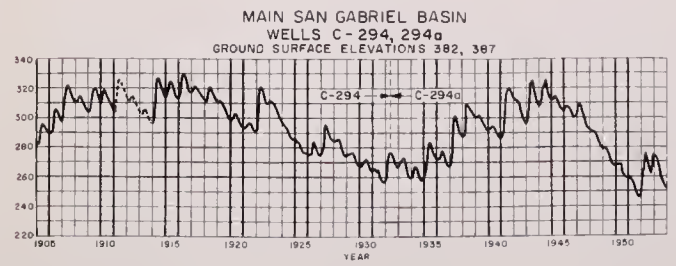
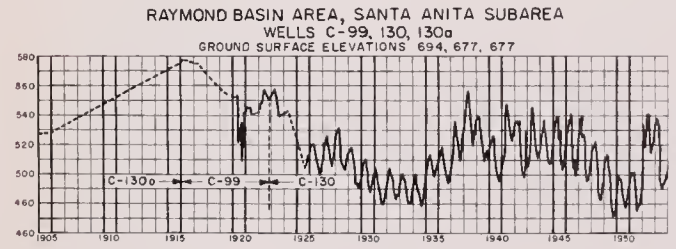
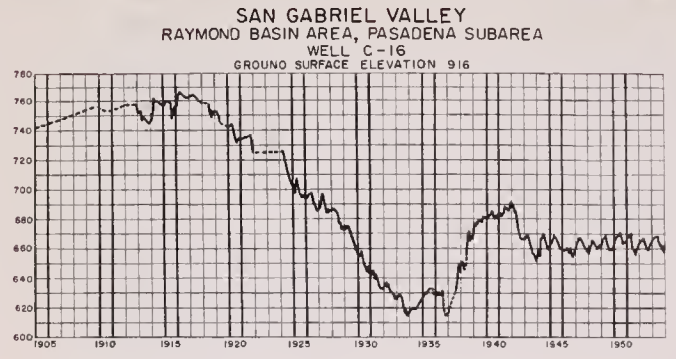
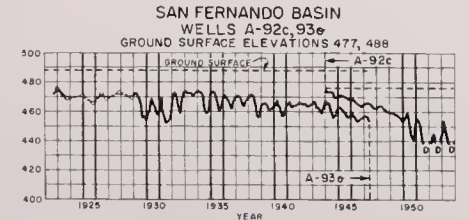
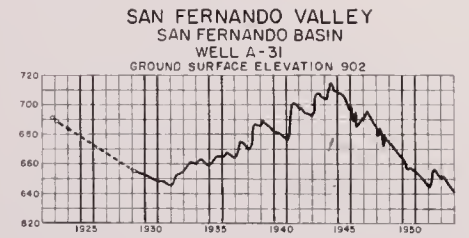
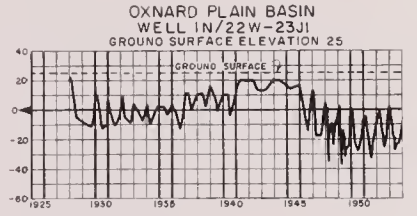
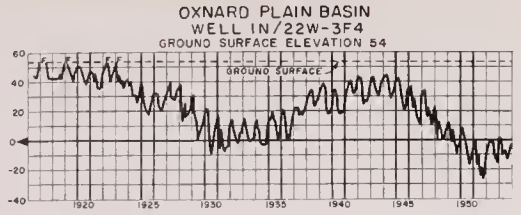
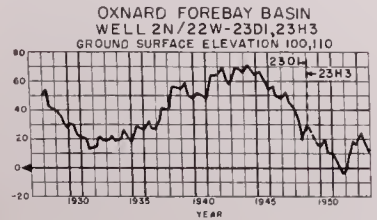
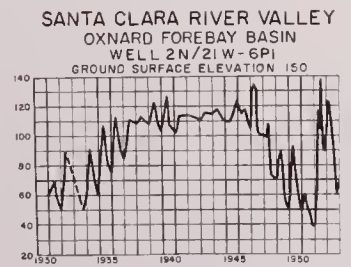
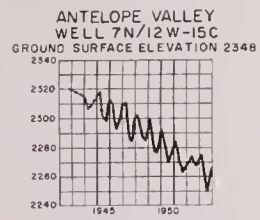
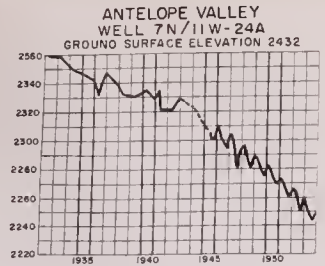
PRECIPITATION RECORDS FOR SEASON 1952-53

(Season - July 1 to June 30)

<u>Station</u>	<u>Map Index</u>	<u>Eleva- tion</u>	<u>Precipitation in Inches</u>	<u>Source of Information</u>
18809A	G-28	1030	10.99	San Bernardino Water Dept.
18826	F-28	1170	13.14	U.S.W.B. (San Bernardino, near)
18886	F-28	1345	13.19	Mrs. E. E. Corwin
18906	F-29	1435	14.44	Thomas A. Ewing
18928	G-30	1365	13.36	Gold Buckle Assn.
18937	G-30	1515	15.56*	East Highlands Orange Co.
18999	G-31	2060	16.80	Southern Calif. Edison Co., Ltd.
19045	F-32	2765	20.07	U.S.W.B. (Santa Ana River)
19416	D-24	2720	24.28	U.S.W.B. (Lytle Creek Ranger Station)
19449	E-25	2260	25.46	Fontana Union Water Co.
19459	E-25	2250	24.29	U.S.W.B. (Lytle Creek)
19569	E-27	1900	18.92	San Bernardino Water Dept.
19723	C-30	6250	27.59	Lake Arrowhead Co.
19915	D-34	6800	27.77	U.S.W.B. (Bear Valley Reservoir Dam)

* Partially estimated by comparison with nearby stations.

ELEVATION OF WATER LEVELS AT KEY WELLS IN FEET — U. S. G. S. DATUM

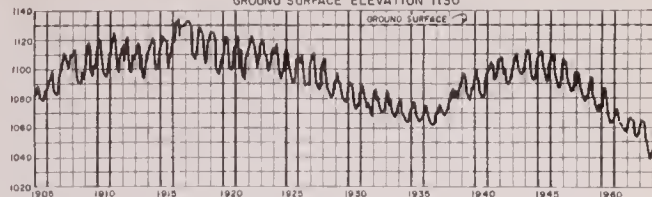


FLUCTUATION OF WATER LEVELS
AT
KEY WELLS

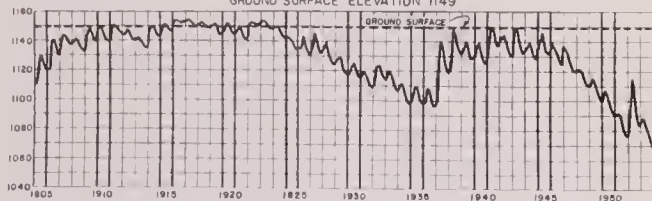
"P" INDICATES PERIOD DURING WHICH WELL FLOWED.
"O" INDICATES PERIOD DURING WHICH WELL WAS DRY.

ELEVATION OF WATER LEVELS AT KEY WELLS IN FEET — U. S. S. DATUM

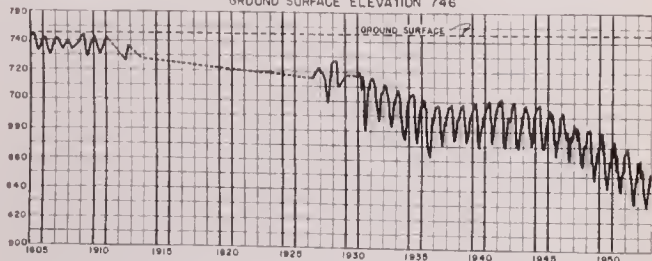
UPPER SANTA ANA VALLEY
BUNKER HILL BASIN
WELL E-37
GROUND SURFACE ELEVATION 1130



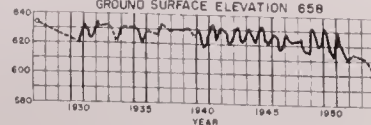
BUNKER HILL BASIN
WELL E-109
GROUND SURFACE ELEVATION 1149



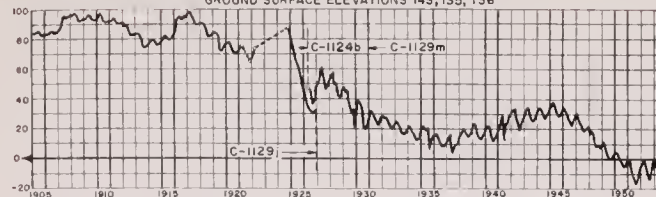
CHINO BASIN
WELL D-743Z
GROUND SURFACE ELEVATION 746



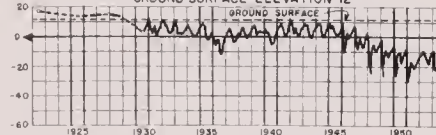
CHINO BASIN
WELL D-909
GROUND SURFACE ELEVATION 658



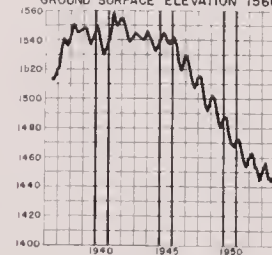
COASTAL PLAIN, ORANGE COUNTY
SANTA ANA FOREBAY AREA
WELLS C-1124b, 1129j, 1129m
GROUND SURFACE ELEVATIONS 145, 135, 136



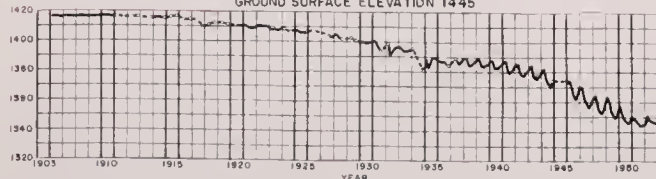
EAST COASTAL PLAIN PRESSURE AREA
WELL C-1257
GROUND SURFACE ELEVATION 12



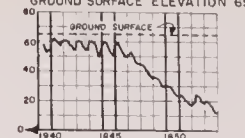
SAN JACINTO VALLEY
SAN JACINTO BASIN
WELL 4S/1W-25A
GROUND SURFACE ELEVATION 1566



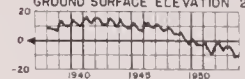
SAN JACINTO BASIN
WELL 4S/2W-7A
GROUND SURFACE ELEVATION 1445



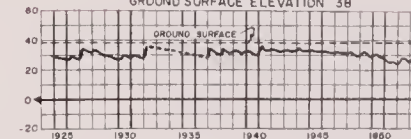
SAN LUIS REY VALLEY
WELL 11S/4W-9E1
GROUND SURFACE ELEVATION 65



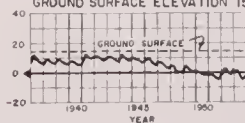
SAN LUIS REY VALLEY
WELL 11S/5W-13P2
GROUND SURFACE ELEVATION 21



TIA JUANA BASIN
WELL 19S/2W-2C3
GROUND SURFACE ELEVATION 38



TIA JUANA BASIN
WELL 19S/2W-5A1
GROUND SURFACE ELEVATION 15



FLUCTUATION OF WATER LEVELS
AT
KEY WELLS



5/10

**THIS BOOK IS DUE ON THE LAST DATE
STAMPED BELOW**

AN INITIAL FINE OF 25 CENTS

WILL BE ASSESSED FOR FAILURE TO RETURN THIS BOOK
ON THE DATE DUE. THE PENALTY WILL INCREASE TO
50 CENTS ON THE FOURTH DAY AND TO \$1.00 ON THE
SEVENTH DAY OVERDUE.

Book Slip-20m-7,'56(U769s4)458

145049

Calif. Dept. of public
works. Division of
water resources.

TC824

C2

A2

no.39S-

UNIVERSITY OF CALIFORNIA, DAVIS



3 1175 02037 6730

PHYSICAL
SCIENCES
LIBRARY

C2

A2

no.39S-

1

LIBRARY
UNIVERSITY OF CALIFORNIA
DAVIS

145049

